

# **DIABETES**

## **LITERATURE INDEX**

NATIONAL INSTITUTE OF ARTHRITIS,  
METABOLISM, AND DIGESTIVE DISEASES

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# DIABETES LITERATURE INDEX

(By Authors, Hierarchy, and by Keywords in the Title)

A monthly publication of the  
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# CHAPTER 11

THEORY OF THE EARTH

1.1.1. The Earth as a System

The Earth is a complex system of interacting components. It is a dynamic system that is constantly changing. The components of the Earth system are the atmosphere, hydrosphere, lithosphere, and biosphere. These components interact with each other and with the external environment.

1.1.2. The Earth's History

The Earth has a long history. It is estimated that the Earth is about 4.5 billion years old. The history of the Earth is divided into geological eras. The geological eras are the Precambrian, Paleozoic, Mesozoic, and Cenozoic.

1.1.3. The Earth's Structure

The Earth is composed of several layers. The layers of the Earth are the crust, mantle, and core. The crust is the outermost layer of the Earth. The mantle is the layer below the crust. The core is the innermost layer of the Earth. The crust is divided into the continental crust and the oceanic crust. The mantle is divided into the upper mantle and the lower mantle. The core is divided into the outer core and the inner core.

1.1.4. The Earth's Climate

The Earth's climate is the result of the interaction of the Earth's components. The climate is a complex system that is constantly changing. The climate is influenced by the atmosphere, hydrosphere, lithosphere, and biosphere.

1.1.5. The Earth's Resources

The Earth has many resources. These resources include land, water, and minerals. These resources are essential for the survival of the human population. The resources of the Earth are being used at an increasing rate. This is leading to the depletion of the resources of the Earth.

1.1.6. The Earth's Future

The future of the Earth is uncertain. It is possible that the Earth will continue to exist for billions of years. It is also possible that the Earth will be destroyed by a catastrophic event. The future of the Earth depends on the actions of the human population.

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## PREFACE

*Diabetes Literature Index* is a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases which has been prepared from MEDLARS (Medical Literature Analysis and Retrieval System) tapes furnished by the National Library of Medicine. This specialized information medium is being published to fill an existing great need in the field of diabetes and to assist the Institute in meeting its obligations to foster and support laboratory and clinical research into the nature, causes, and therapy for diabetes. Publication of *Diabetes Literature Index* makes available an index of all current scientific papers relevant to this field from the world literature.

It is hoped that the issuing of *Diabetes Literature Index* under the auspices of the National Institute of Arthritis, Metabolism, and Digestive Diseases will provide a much needed current awareness tool to scientists and will facilitate greater integration of research and clinical efforts in this field. *Diabetes Literature Index* has been published monthly since January 1966 and is cumulated at the end of each calendar year.

This publication is available free to National Institutes of Health grantees and contractors working in the field of diabetes, and libraries of medical schools. Requests from these *qualified* individuals to receive free copies of this publication must include their grant or contract number and the title of their project. These requests as well as address changes and other communications from these qualified recipients of free copies should be addressed to:

Scientific Communications Office  
Diabetes Literature Index  
National Institute of Arthritis,  
Metabolism, and Digestive Diseases  
Building 31, Room 9A-03  
Bethesda, Maryland 20014

*Other individuals and other libraries* may receive this publication by subscribing *directly* to the Superintendent of Documents. Subscription price per year in the United States, Canada, and Mexico, \$26.50 (cumulative index issue not included; will be on sale, price to be determined later); foreign, \$6.65 additional; and \$2.25 for a single copy. Payment is required in advance, and check or money order should be made payable to the Superintendent of Documents. Address changes for subscribers should be sent *directly* to:

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The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1978

## EDITORIAL NOTE

*Diabetes Literature Index*, a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases (NIAMDD), was brought about through the cooperative efforts of two divisions of the National Institutes of Health (NIAMDD and the National Library of Medicine), a professional society (American Diabetes Association), three Universities (University of Minnesota, University of Rochester, and Case Western Reserve University) as well as a number of individual scientists. In this rather unique cooperative project, initiated in 1958, duplication of effort has been reduced to a minimum. The digital information generated from the original input of bibliographic citations to the National Library of Medicine's MEDLARS system is processed by computer in several different ways and ultimately used to compose the final printed pages of this *Diabetes Literature Index*.

Each month the MEDLARS magnetic tape furnished by the National Library of Medicine (NLM) is used for identification of the diabetes related literature. All bibliographic citations classified under subject headings which we have designated as Priority I, represent articles that are 100% diabetes-related; they are automatically copied onto a new magnetic tape and constitute over seventy percent of the citations appearing in this index. The citations appearing under Priority II and III are subject headings which include both diabetes-related and unrelated articles; these are printed on cards by the computer. The diabetes related citations are identified manually and the corresponding digital information is added to the next month's Priority I magnetic tape.

In the selection of this bibliography, diabetes-related literature has been defined in a rather arbitrary but broad, comprehensive manner with a view toward providing the widest possible coverage of related areas. To this end the following subjects have been included: the Islets of Langerhans in the pancreas, including their structure and pathologic alterations; insulin, its properties, assay, synthesis, release or degradation; the direct and indirect effects of insulin on target organs; blood glucose level, hyper- and hypo-glycemia; insulin antibodies and insulin resistance; insulin allergy; recent developments in intermediary metabolism; experimental and clinical aspects of diabetes, signs, symptoms, diagnosis, treatment, complications, and associated condi-

tions. Also included are other hormones and agents whose effects are similar, opposite, synergistic or antagonistic to insulin, either in their primary or secondary effects on target organs. It should be noted that there are undoubtedly some omissions due to the empirical definition of the diabetes-related literature which was adopted and also to the difficulties attendant in preparing such a large-scale bibliography by machine.

The *Diabetes Literature Index* is published in three formats: a hierarchical subject index, a key word in title index, and an author index. The magnetic tape version of these indexes, prepared at the University of Minnesota, is used to generate the copy for offset printing by the Government Printing Office on their Linotron.

*Hierarchical Subject Index:* This index differs from *Index Medicus* in that related terms are grouped together in a hierarchical relationship. Thus, all citations which are indexed under blood sugar, glucose tolerance, hyperglycemia, hypoglycemia, and glycosuria are grouped under the general heading "blood sugar, urine sugar and related topics." In both the Diabetes Key Word Index and in *Index Medicus* these terms are arranged alphabetically, and the corresponding citations are distributed at many different page locations. In some instances where only a few citations appear under several similar subject headings, these are grouped together under a more generic term; at times, a new non-MEDLARS index term is created to cover these groupings of subject headings. In some instances where many citations appear under a single subject heading, these are subdivided by using subheadings.

Although the hierarchical subject index is, in a sense, a miniaturized version of *Index Medicus* (dealing with the core diabetes literature) it provides a much greater depth of indexing. Many relevant citations included in the *Diabetes Literature Index* do not appear under the corresponding subject headings in *Index Medicus*; because of space limitations, only two or three of the ten or more index terms included on the MEDLARS magnetic tape are used in the printed version of *Index Medicus*. At times the reason why a given citation appears under a specific subject heading may not be apparent from the article title. However, examination of the list of index terms for this citation (included in the Author Index under

the principal author) will give the basis for this inclusion.

Beginning with the January 1971 issue, two sections are included in the Hierarchical Subject Index. In *Section 1*, "Diabetes Mellitus and Related Topics," the major subdivisions include the MEDLARS terms: Islets of Langerhans, Pancreas, Insulin, Glucagon, Blood and Urine Sugar; the subsection on "Diabetes," (Section 1.F) is extensively subdivided and many subheadings are used. In *Section 2*, "Endocrinology" is divided into subsections dealing with the individual endocrine glands. Hierarchical subject indexes related to Biochemistry and the organ systems (included in the experimental issues, published in February and March, 1969) are not included at this time; terms related to these subjects are, however, included in the Keyword Index.

A list of the subject headings included in the tree structure of the hierarchy (with their corresponding index numbers) and an alphabetic cross index of these subject headings is printed immediately preceding the Hierarchical Subject Index.

**Key Word Index:** For all of the diabetes-related literature chosen, key words in the title are identified by the computer and an expanded magnetic tape is prepared, listing the complete bibliographic citation under each key word. Most editorial decisions are made by the computer-disk-look-up-program using a master list of terms. Trivial words are deleted and specific word combinations are also selected. Abbreviations and word variant forms are replaced by the more commonly used key word. Inconsistencies between the British and American spellings are eliminated. In no case, however, is a change made within the title itself. Words which have not ap-

peared previously in the system are identified by the computer program and flagged for human decision.

With the publication of the hierarchical subject index, the key word index has been shortened. Diabetes is not included as a term in the key word index as it is covered in great detail in the hierarchical subject index. Although users may find the hierarchical subject index more useful for coverage of their broad interests, the key word index is advantageous in locating citations dealing with very specific terms—for example those relating to biochemistry or the organ systems. The key word index is of special value in locating citations dealing with the frontiers of diabetes research, for new terms appearing in the title are immediately included in the key word index.

**Author Index:** Because of space limitations, the printed version of *Index Medicus* excludes all but the first three authors in multiple author publications. However since the last author is often the best known, this name may be the most useful for reference or retrieval; therefore, all authors are included in the Diabetes Literature Author Index. These are automatically identified by the computer program and an alphabetized magnetic tape is prepared in which the complete bibliographic citation is included under each author. In addition, all of the index terms used by the NLM for each citation are listed under the principal author, thus providing an overview of the subject content of the article.

Users planning to systematically cover all articles appearing in a given month may do so by scanning the author index, limiting their perusal to the principal author, i.e., those citations which contain the MEDLARS index terms.



# Arrangement of the Hierarchical Index

I	SECTION 1. DIABETES MELLITUS AND RELATED TOPICS	1.E.3.5	HYPERGLYCEMIA, DRUG THERAPY
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1A.1	ISLANDS OF LANGERHANS, ANATOMY RELATED	1.E.3.7	HYPERGLYCEMIA, METABOLISM
1A.2	ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED	1.E.3.8	HYPERGLYCEMIA, PHYSIOPATHOLOGY
1A.3	ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED	1.E.3.9	HYPERGLYCEMIA, URINE
1A.4	ISLANDS OF LANGERHANS, PHARMACOLOGY RELATED	1.E.4	GLYCOSURIA
1A.5	ISLANDS OF LANGERHANS, PATHOLOGY RELATED	1.E.4.1	GLYCOSURIA, CHEMICALLY INDUCED
1B	PANCREAS	1.E.4.2	GLYCOSURIA, COMPLICATIONS
1B.1	PANCREAS, ANATOMY RELATED	1.E.4.3	GLYCOSURIA, DIAGNOSIS
1B.2	PANCREAS, BIOCHEMISTRY RELATED	1.E.4.4	GLYCOSURIA, DRUG THERAPY
1B.3	PANCREAS, PHYSIOLOGY RELATED	1.E.4.5	GLYCOSURIA, ENZYMOLOGY
1B.4	PANCREAS, PHARMACOLOGY RELATED	1.E.4.6	GLYCOSURIA, ETIOLOGY
1B.5	PANCREAS, PATHOLOGY RELATED	1.E.4.7	GLYCOSURIA, METABOLISM
1B.6	PANCREAS, SURGERY RELATED	1.E.4.8	GLYCOSURIA, OCCURRENCE
1B.6.1	PANCREAS, TRANSPLANTATION	1.E.5	GLYCOSURIA, RENAL
1B.6.2	PANCREATECTOMY	1.E.6	HYPOGLYCEMIA
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1C.1	INSULIN, BIOCHEMISTRY RELATED	1.E.6.2	HYPOGLYCEMIA, CHEMICALLY INDUCED
1C.1.1	INSULIN, ISOLATION AND PURIFICATION	1.E.6.3	HYPOGLYCEMIA, COMPLICATIONS
1C.1.2	INSULIN, ANALYSIS	1.E.6.4	HYPOGLYCEMIA, DIAGNOSIS
1C.1.3	INSULIN, CHEMICAL SYNTHESIS	1.E.6.5	HYPOGLYCEMIA, DRUG THERAPY
1C.1.4	INSULIN, BIOSYNTHESIS	1.E.6.6	HYPOGLYCEMIA, ETIOLOGY
1C.1.5	INSULIN, METABOLISM	1.E.6.7	HYPOGLYCEMIA, METABOLISM
1C.1.6	INSULIN, BLOOD	1.E.6.8	HYPOGLYCEMIA, PHYSIOPATHOLOGY
1C.1.7	INSULIN, URINE	1.E.6.9	HYPOGLYCEMIA, THERAPY
1C.2	INSULIN, PHYSIOLOGY RELATED	1.F	DIABETES
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1C.2.2	INSULIN, SECRETION	1.F.2	DIABETES MELLITUS
1C.3	INSULIN, PHARMACOLOGY RELATED	1.F.2.1	DIABETES MELLITUS, JUVENILE
1C.3.1	INSULIN, PHARMACODYNAMICS	1.F.3	DIABETES, BIOCHEMISTRY RELATED
1C.3.2	INSULIN, ANTAGONISTS AND INHIBITORS	1.F.3.1	DIABETES, METABOLISM
1C.3.3	INSULIN, ADVERSE EFFECTS	1.F.3.2	DIABETES, ENZYMOLOGY
1C.4	HYPERTENSIVISM	1.F.3.3	DIABETES, BLOOD
1C.4.1	INSULIN COMA	1.F.3.4	DIABETES, URINE
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1C.6	INSULIN RESISTANCE	1.F.5	DIABETES, IMMUNOLOGY
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1C.7.2	INSULIN ADMINISTRATION AND DOSAGE (SEE 1.F.9.3.1)	1.F.6.1.1	ACIDOSIS, DIABETIC
1C.7.3	INSULIN, THERAPEUTIC USE (SEE 1.F.9.3.2)	1.F.6.1.2	DIABETIC COMA
1C.8	INSULIN, HISTORY	1.F.6.2	DIABETIC ANGIOPATHIES
1D	GLUCAGON	1.F.6.3	DIABETIC NEPHROPATHIES
1D.1	GLUCAGON, BIOCHEMISTRY RELATED	1.F.6.4	DIABETIC NEUROPATHIES
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1D.1.2	GLUCAGON, METABOLISM	1.F.6.6	OTHER COMPLICATIONS OF DIABETES
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1D.2	GLUCAGON, PHYSIOLOGY RELATED	1.F.6.8	PREGNANCY IN DIABETES
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1D.3	GLUCAGON, PHARMACOLOGY RELATED	1.F.7.2	DIABETES, ETIOLOGY
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1E.1.1	BLOOD SUGAR, ANALYSIS	1.F.9.2	DIABETES, NUTRITION AND DIET THERAPY
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1E.1.4	BLOOD SUGAR, PHARMACODYNAMICS	1.F.9.2.3	DIET
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## Arrangement of the Hierarchical Index

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1.F.9.4	DIABETES, ANTIDIABETICS AND THERAPY	2.G.4	PINEAL BODY
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1.F.9.4.2	TOLBUTAMIDE	2.G.6	SECRETORY RATE
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1.F.9.4.4	PHENFORMIN		
1.F.9.4.5	OTHER BIGUANIDES		
1.F.9.5	DIABETES DRUG THERAPY		
1.F.9.6	DIABETES THERAPY		
1.F.9.7	DIABETES, RADIOGRAPHY		
1.F.9.8	DIABETES, SURGERY		
1.F.9.9	DIABETES, MORTALITY		
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1.F.10.2	ALLOXAN DIABETES		
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1.F.10.2.4	ALLOXAN DIABETES, METABOLISM		
1.F.10.2.5	ALLOXAN DIABETES, PATHOLOGY		
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1.F.11	DIABETES, VETERINARY		
1.F.12	DIABETES, HISTORY		
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2.F.2	TESTIS		
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2.F.3.4	CONTRACEPTIVES, ORAL		
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2.G.1	ENDOCRINE GLANDS		
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2.G.2.4	PLACENTAL HORMONES		
2.G.2.5	RELAXIN		



### MEDLARS Terms Included in Hierarchical Index

ACETONHEXAMIDE  
 ACIDOSIS, DIABETIC  
 ACROMEGALY  
 ADDISON'S DISEASE  
 ADRENAL CORTEX HORMONES  
 ADRENAL GLAND HYPERFUNCTION  
 ADRENAL GLAND HYPOFUNCTION  
 ADRENAL GLANDS  
 ADRENAL MEDULLA  
 ADRENALECTOMY  
 ADRENOGENITAL SYNDROME  
  
 ALDOSTERONE  
 ALLOXAN DIABETES  
     BLOOD  
     DRUG THERAPY  
     ENZYMOLGY  
     METABOLISM  
     PATHOLOGY  
     PHYSIOPATHOLOGY  
  
 AMNIOCENTESIS  
 ANABOLIC STEROIDS  
 ANDROGENS  
 ANDROSTERONE  
  
 ANTIDIABETICS  
 APGAR SCORE  
 ARTERIOSCLEROSIS  
 BETAMETHASONE  
 BIGUANIDES  
 BLOOD SUGAR  
     ANALYSIS  
     BIOSYNTHESIS  
     METABOLISM  
     PHARMACODYNAMICS  
 CALCITONIN  
 CARBUTAMIDE  
 CHLORMADINONE  
 CHLOROTRIANSENE  
 CHLORPROPAMIDE  
 CHOLECYSTOKININ  
 CHOLESTEROL, DIETARY  
 CHROMAFFIN SYSTEM  
 CONTRACEPTIVES, ORAL  
 CORONARY DISEASE  
 CORPUS LUTEUM  
 CORPUS LUTEUM HORMONES  
 CORTICOSTERONE  
 CORTICOTROPIN  
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## SECTION 1. DIABETES MELLITUS AND RELATED TOPICS

### 1.A ISLANDS OF LANGERHANS

- IMMUNOLOGICAL STUDIES IN THE NEONATE OF A MOTHER WITH ADDISON'S DISEASE AND DIABETES MELLITUS.** Gamlen TR, Aynsley-Green A, Irvine WJ, McCallum CJ *Clin Exp Immunol* 28: 192-5, Apr 77 (Eng) DL/77SEP131
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# 1.C INSULIN

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## 1.D.3.3 GLUCAGON, TOXICITY

## 1.D.4 GLUCAGON, THERAPY RELATED

### 1.D.4.1 GLUCAGON, DIAGNOSTIC USE

**C-PEPTIDE IN DIABETIC CHILDREN AFTER STIMULATION WITH GLUCAGON COMPARED WITH FASTING C-PEPTIDE LEVELS IN NON-DIABETIC CHILDREN.** Ludvigsson J, Heding LG *Acta Endocrinol (Kbh)* 85: 364-71, Jun 77 (Eng) DL/77SEP424

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### 1.D.4.2 GLUCAGON, THERAPEUTIC USE

## 1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

### 1.E.1 BLOOD SUGAR

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## 2.C THYROID GLAND

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### 2.F GONADS

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##### 2.F.3.3.1 CORPUS LUTEUM HORMONES

##### 2.F.3.3.2 PROGESTATIONAL HORMONES

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### 2.G.2.6 JUVENILE HORMONES

### 2.G.3 CHROMAFFIN SYSTEM

### 2.G.4 PINEAL BODY

### 2.G.5 PITUITARY-ADRENAL SYSTEM

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## GLYCINE

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ADOLESCENCE; ADULT; AGED; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS (complications, pathology, physiopathology); ENGLISH ABSTRACT; FEMALE; GONTER, EXOPHTHALMIC (pathology, physiopathology); HUMAN; HYPOTHYROIDISM (physiopathology); MALE; MIDDLE AGE; MOTOR NEURONS; MUSCLES (pathology); MUSCULAR DYSTROPHY (complications); NEURAL CONDUCTION; NEUROMUSCULAR JUNCTION (physiopathology); PERIPHERAL NERVES (physiopathology); POLYNEURITIS (complications); PREDIABETIC STATE (physiopathology); REFLEX, ABNORMAL.

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ALBUMINS (metabolism); BINDING SITES; BINDING SITES, ANTIBODY; BLOOD PROTEINS (metabolism); CELL MEMBRANE (metabolism); CENTRIFUGATION, DENSITY GRADIENT; CHROMATOGRAPHY, AGAROSE; FEMALE; HUMAN; IGG (metabolism); IMMUNOGLOBULIN FRAGMENTS (metabolism); IMMUNOGLOBULINS (metabolism); IN VITRO; INSULIN (metabolism); PLACENTA (metabolism); POLYVINYLPYRROLIDONE (metabolism); PREGNANCY; PROTEIN BINDING; TRANSFERRIN (metabolism).

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ARGinine (metabolism); CANAVANINE (metabolism); CELLS, CULTURED; DIBUTYRYL CYCLIC AMP (pharmacodynamics); HEPATOMA (familial & genetic, metabolism); INSULIN (pharmacodynamics); LIVER NEOPLASMS (familial & genetic, metabolism); MONOGRAPH (mortality); MUTATION; NEOPLASM PROTEINS (metabolism); NEOPLASMS, EXPERIMENTAL (familial & genetic, metabolism); PHENOTYPE.

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[PANCREATIC ISLETS IN PATIENTS WITH HYPOGLYCEMIC BETA-ISLET CELL ADENOMAS] Bani Sacchi T, Bartolini G, Biliotti G *Boll Soc Ital Biol Sper* 52: 1771-3, 15 Nov 76 (Ita) DL/77SEP92

HUMAN; HYPOGLYCEMIA (etiology); ISLANDS OF LANGERHANS (ultrastructure); ISLET CELL TUMOR (complications, ultrastructure); PANCREATIC NEOPLASMS (complications, ultrastructure).

[BEHAVIOR OF THE INTERCALARYTRACTS OF THE PANCREAS IN PATIENTS WITH HYPOGLYCEMIC BETA-ISLET CELL ADENOMA] Bani Sacchi T, Bartolini G, Biliotti G *Boll Soc Ital Biol Sper* 52: 1774-7, 15 Nov 76 (Ita) DL/77SEP93

HUMAN; HYPOGLYCEMIA (etiology); ISLET CELL TUMOR (complications, ultrastructure); PANCREAS (ultrastructure); PANCREATIC NEOPLASMS (complications, ultrastructure).

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ADULT; HUMAN; INSULIN (therapeutic use); MIDDLE AGE; OBESITY IN DIABETES (drug therapy, therapy); TOLBUTAMIDE (therapeutic use).

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**DOES A CYTOPLASMIC FACTOR STIMULATE THE TRANSFER OF PHOSPHATIDYL SERINE FROM LIPOSOMES TO MITOCHONDRIA** Baranska J, Wojtczak L *FEBS Lett* 72: 83-6, 15 Nov 76 (Eng) \*DL/77SEP64  
**ANIMAL; CELL-FREE SYSTEM; CYTOPLASM (metabolism); HEAT; LIPOSOMES (metabolism); MALE; MICROSOMES, LIVER (metabolism); MITOCHONDRIA, LIVER (metabolism, ultrastructure); PHOSPHATIDYLETHANOLAMINES (metabolism); PHOSPHATIDYL SERINES (metabolism); RATS.**

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**[DIAGNOSTIC AND THERAPEUTIC DIAGRAMMATIZATION OF DIABETIC COMA: PRESENTATION OF 2 RECENT CASES]** Barbero PL, Gamba S, Zanno C, Bollati C, Martinoglio P, Bruni B *Ann Osp Maria Vittoria Torino* 19: 74-101, Jan-Jun 76 (Ita) DL/77SEP466

**ADULT; BICARBONATES (therapeutic use); BLOOD SUGAR (analysis); BLOOD; CASE REPORT; DIABETIC COMA (diagnosis, therapy); FEMALE; HUMAN; INSULIN (administration & dosage, therapeutic use); KETOSIS, DIABETIC (therapy); MALE; OSMOLAR CONCENTRATION; POTASSIUM (therapeutic use); WATER-ELECTROLYTE BALANCE.**

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**ADRENERGIC ALPHA RECEPTOR BLOCKADERS (pharmacodynamics); ADRENERGIC BETA RECEPTOR BLOCKADERS (pharmacodynamics); ANIMAL; DIAZOXIDE (pharmacodynamics); GLUCOSE (pharmacodynamics); IMIDAZOLES (pharmacodynamics); ISLANDS OF LANGERHANS (drug effects); MALE; NOREPINEPHRINE (pharmacodynamics); RATS; RESERPINE (pharmacodynamics); SYMPATHETIC NERVOUS SYSTEM (physiology); TIME FACTORS.**

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**ANIMAL; BINDING SITES; CHICKENS; COMPARATIVE STUDY; GASTROINTESTINAL HORMONES**

(physiology); GLUCAGON (pharmacodynamics, physiology); HUMAN; INSULIN (pharmacodynamics); INTESTINES; LIVER; MONOGRAPH (mortality); PANCREAS; PROTEIN BINDING (drug effects); RATS; RECEPTORS, HORMONE (physiology); RECEPTORS, INSULIN (physiology); SPECIES SPECIFICITY; SWINE; VASOACTIVE INTESTINAL PEPTIDE (pharmacodynamics, physiology).

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**METABOLIC RESPONSE TO INTRAVENOUS SALBUTAMOL THERAPY IN ACUTE ASTHMA.** Tickner TR, Cramp DG, Foo AY, Johnson AJ, Bateman SM, Pidgeon J, Spiro SG, Clarke SW, Wills MR *Thorax* 32: 182-4, Apr 77 (Eng) DL/77SEP373

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**ANIMAL; AORTA (metabolism); CELLS, CULTURED; CHOLESTEROL ESTERS (metabolism); CHOLESTEROL (analogs & derivatives, metabolism); HYPERLIPEMIA (blood); KINETICS; MONKEYS; PHOSPHOLIPIDS (blood); RHESUS MONKEYS; TRIGLYCERIDES (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).**

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**[CHRONIC EXPOSURE TO STRESS AND REGULATION OF CARBOHYDRATE METABOLISM]** Moritz V, Baumann R, Hecht K, Hecht T *Zh Vyssh Nerv Deiat* 27: 360-2, Mar-Apr 77 (Rus) DL/77SEP420

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**[THE PATHOGENESIS OF ATHEROSCLEROSIS. CONTRIBUTION FROM A CYTOBIOLOGICAL VIEWPOINT]** Baumgartner HR *Schweiz Med Wochenschr* 107: 717-22, 28 May 77 (Ger) DL/77SEP361

**ARTERIES (cytology); ARTERIOSCLEROSIS (etiology); ATHEROSCLEROSIS (etiology); BLOOD PLATELETS (metabolism, physiopathology); DIABETES MELLITUS (complications); DIETARY FATS (adverse effects); ENDOTHELIUM (cytology); GLUCOSEPHOSPHATE DEHYDROGENASE (metabolism); HUMAN; HYPERLIPEMIA (complications); HYPERTENSION (complications); ISOENZYMES, MUSCLE, SMOOTH (physiopathology); OBESITY (complications); PLATELET ADHESIVENESS; SMOKING (complications); SWINE.**

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**METABOLISM AND TRANSPORT OF GALACTOSE BY RAT INTESTINE.** Berman WF, Bautista JO, Rogers S, Segal S *Biochim Biophys Acta* 453: 90-101, 11 Nov 76 (Eng) \*DL/77SEP45

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**TEMPERATURE AND ENDOCRINE ACTIVITY DURING SLEEP IN MAN. ACTIVATION OF CORTISOL AND THYROID-STIMULATING HORMONE, INHIBITION OF HUMAN GROWTH HORMONE SECRETION BY RAISED OR DECREASED AMBIENT AND BODY TEMPERATURES.** Beck U, Reinhardt H, Kendel K, Schmidt-Kessen W *Arch Psychiatr Nervenkr* 222: 245-56, 28 Oct 76 (Eng) \*DL/77SEP90



ADULT; BODY TEMPERATURE; ELECTROENCEPHALOGRAPHY; HUMAN; HYDROCORTISONE (blood); MALE; PITUITARY HORMONES, ANTERIOR (blood); SLEEP STAGES; SLEEP (physiology); SOMATOTROPIN (blood); TEMPERATURE; THYROTROPIN (blood).

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ON THE POSSIBLE ROLE OF RESPIRATORY ACTIVITY OF ACHOLEPLASMA LAIDLAWII CELLS IN SUGAR TRANSPORT. Tarshis MA, Bekkouzin AG, Ladygina VG Arch Microbiol 109: 295-9, 1 Sep 76 (Eng) \*DL/77SEP38

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ACROMEGALY (drug therapy); ADULT; BLOOD SUGAR (analysis); CALCIUM (urine); DRUG EVALUATION; ERGOTOXINE (therapeutic use); FEMALE; GLYCOSURIA; HUMAN; HYDROXYPROLINE (urine); INSULIN (diagnostic use, secretion); MALE; MIDDLE AGE; PHOSPHATES (urine); PHOSPHORUS (blood); PROLACTIN (blood); SOMATOTROPIN (blood, secretion); THYROTROPIN RELEASING HORMONE (diagnostic use); TIME FACTORS; 2-BROMOERGOCRYPTINE (administration & dosage, therapeutic use).

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ANIMAL; COMPARATIVE STUDY; FASTING; INSULIN (secretion); ISLANDS OF LANGERHANS (secretion); MICE; MICE, OBESE; PITUITARY GLAND (physiology); SPECIES SPECIFICITY.

**Belogurova VP**

[ASSOCIATION OF SHEEHAN'S SYNDROME AND DIABETES MELLITUS] Parashchuk AP, Parashchuk PV, Belogurova VP Klin Med (Mosk) 55: 108-10, Apr 77 (Rus) DL/77SEP275

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[DEGREE OF MATURITY OF TROPHOBLAST IN THE PLACENTA IN HIGH RISK PREGNANCY OF PREGNANCY TOXEMIA, DIABETES MELLITUS AND RH FACTOR IN-

COMPATIBILITY] Benedetti WL, Alvarez H, Sala MA, Jacomo KH Acta Ginecol (Madr) 30: 87-98, 15 Feb 77 (Spa) DL/77SEP434

COMPARATIVE STUDY; ENGLISH ABSTRACT; ERYTHROBLASTOSIS, FETAL (pathology); FEMALE; HUMAN; PREGNANCY IN DIABETES (pathology); PREGNANCY TOXEMIAS (pathology); PREGNANCY TRIMESTER, THIRD; PREGNANCY; TROPHOBLAST (pathology).

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ADIPOSE TISSUE (metabolism); DIET, REDUCING; EXERTION; FATTY LIVER (etiology); HUMAN; INTESTINE, SMALL (surgery); OBESITY (metabolism, surgery, therapy); POSTOPERATIVE COMPLICATIONS (poisoning); SPLINTS, PERIODONTAL; STARVATION; STOMACH (surgery).

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ACUTE RENAL FAILURE, DIABETES MELLITUS, AND SCANNING [LETTER]. Berezin AF Ann Intern Med 86: 829-30, Jun 77 (Eng) DL/77SEP458

CASE REPORT; CONTRAST MEDIA (adverse effects); DIABETES MELLITUS (complications); FEMALE; HUMAN; KIDNEY FAILURE, ACUTE (chemically induced); MIDDLE AGE; TOMOGRAPHY, COMPUTERIZED AXIAL (adverse effects).

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ADSORPTION; ENGLISH ABSTRACT; HUMAN; INFUSIONS, PARENTERAL; INSULIN (administration & dosage, metabolism). [CONTINUOUS INSULIN INFUSION IN THE TREATMENT OF DIABETIC COMA AND POST-TRAUMATIC HYPERGLYCEMIA] Berghem L, Schildt B Lakartidningen 74: 2105-8, 25 May 77 (Swe) DL/77SEP281

ADSORPTION; BLOOD SUGAR (analysis); DIABETIC COMA (drug therapy); ENGLISH ABSTRACT; HYPERGLYCEMIA (drug therapy, etiology); INFUSIONS, PARENTERAL; INSULIN (administration & dosage, metabolism, therapeutic use); POTASSIUM (blood); TIME FACTORS; WOUNDS AND INJURIES (complications).

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DIABETIC RETINOPATHY. Berkow JW Int Ophthalmol Clin 17: 89-96, Summer 77 (Eng) DL/77SEP202

ANEURYSM (pathology); CAPILLARIES (pathology); DIABETIC RETINOPATHY

(classification, pathology, therapy); FUNDUS FLUORESCENCE PHOTOGRAPHY; HUMAN; RETINAL VEIN (pathology); RETINAL VESSELS (pathology); VASCULAR DISEASES (pathology).

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DIABETIC RETINOPATHY AND GROWTH HORMONE [LETTER]. Berkowitz O Am J Ophthalmol 83: 929-30, Jun 77 (Eng) DL/77SEP454

DIABETIC RETINOPATHY (etiology); HUMAN; LEVODOPA (pharmacodynamics); SOMATOTROPIN (blood, secretion).

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GLUCOSE LOADING AND DEHYDRATION IN THE CAMEL. Yagil R, Berlyne GM J Appl Physiol 42: 690-3, May 77 (Eng) DL/77SEP208

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METABOLISM AND TRANSPORT OF GALACTOSE BY RAT INTESTINE. Berman WF, Bautista JO, Rogers S, Segal S Biochim Biophys Acta 455: 90-101, 11 Nov 76 (Eng) \*DL/77SEP45

ANIMAL; BIOLOGICAL TRANSPORT, ACTIVE; GALACTOSE (metabolism); GLUCOSE (metabolism); HEXOSEPHOSPHATES (metabolism); INTESTINAL ABSORPTION; INTESTINAL MUCOSA (metabolism); JEJUNUM (metabolism); KINETICS; MALE; RATS; STOMACH (physiology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. )

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**APPENDICITIS (etiology); CELLULOSE; DIABETES MELLITUS (etiology); DIETARY FIBER; HUMAN.**

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**STRUCTURAL AND FUNCTIONAL INTEGRITY OF ISOLATED HUMAN ISLETS OF LANGERHANS MAINTAINED IN TISSUE CULTURE FOR 1-3 WEEKS.** Lundgren G, Andersson A, Borg H, Buschard K, Groth CG, Gunnarsson R, Hellerstrom C, Peterson B, Ostman J. *Transplant Proc* 9: 237-40, Mar 77 (Eng) DL/77SEP383

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**ANIMAL; AORTA (metabolism); ARTERIOSCLEROSIS (metabolism); ATHEROSCLEROSIS (metabolism); CHOLESTEROL ESTERS (metabolism); CHOLESTEROL (metabolism); DIET, ATHEROGENIC; DIETARY FATS; DISEASE MODELS, ANIMAL; DOGS; FATTY ACIDS (metabolism); LIPIDS (blood, metabolism); MALE; PHOSPHOLIPIDS (metabolism); TRIGLYCERIDES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. )**

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**DIETETIC THERAPY OF PREDIABETIC STATE.** Butturini U, Coscelli C. *Panminerva Med* 19: 107-10, Mar-Apr 77 (Eng) DL/77SEP313

**BLOOD SUGAR; CALORIC INTAKE; HUMAN; PREDIABETIC STATE (blood, diet therapy).**

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**ACTION OF SOME NEUROTROPIC DRUGS AND CU<sup>2+</sup> CATIONS ON MITOCHONDRIAL MEMBRANE PERMEABILITY.** Byczkowski J, Borysewicz R. *Gen Pharmacol* 7: 365-9, Oct 76 (Eng) \*DL/77SEP19

**ANIMAL; CHLORPROMAZINE (pharmacodynamics); IMIPRAMINE (pharmacodynamics); IN VITRO; MEMBRANES (metabolism); MITOCHONDRIA, LIVER (drug effects, metabolism); MITOCHONDRIAL SWELLING (drug effects); PERMEABILITY; POTASSIUM CHLORIDE (pharmacodynamics); RATS; SODIUM CHLORIDE (pharmacodynamics); SUCROSE (pharmacodynamics).**

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**CHOLESTEROL (blood); CHRONIC DISEASE; CORONARY DISEASE (etiology); DIABETES MELLITUS (complications); ENGLISH ABSTRACT; FEMALE; HUMAN; HYPERLIPIDEMIA (complications); HYPERTENSION (complications); HYPOPROTEINEMIA (complications); MALE; SMOKING (complications); TRIGLYCERIDES (blood).**



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INTRASPLENIC AUTOTRANSPLANTATION OF CANINE PANCREATIC TISSUES. MAINTENANCE OF NORMOGLYCAEMIA AFTER TOTAL PANCREATECTOMY. Mirkovitch V, Campiche M *Eur Surg Res* 9: 173-90, 1977 (Eng) DL/77SEP154

PANCREATIC TRANSPLANTATION. ABSENCE OF DIABETES IN DOGS AFTER TOTAL PANCREATECTOMY AND INTRASPLENIC AUTOTRANSPLANTATION OF PANCREATIC TISSUE. Mirkovitch V, Campiche M *Transplant Proc* 9: 321-3, Mar 77 (Eng) DL/77SEP384

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SUBCELLULAR DISTRIBUTION AND RESPONSE TO GASTROINTESTINAL HORMONES OF ADENYLATE CYCLASE IN THE RAT PANCREAS. PARTIAL PURIFICATION OF A STABLE PLASMA MEMBRANE PREPARATION. Svoboda M, Robberecht P, Camus J, Deschodt-Lanckman M, Christophe J *Eur J Biochem* 69: 185-93, 1 Oct 76 (Eng) \*DL/77SEP57

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[KLINEFELTERS SYNDROME IN 19 YEAR OLD ADOLESCENTS. (100 CASES DETECTED DURING SELECTION FOR NATIONAL SERVICE)] Fromantin M, Pesquies P, Serrurier B, Gautier D, Canivet B, Grenier J, Scholler R *Ann Med Interne (Paris)* 128: 239-44, Mar 77 (Fre) DL/77SEP461

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AMINO ACIDS, ESSENTIAL (administration & dosage); DIABETES MELLITUS (complications, diet therapy); DIABETIC NEPHROPATHIES (diet therapy); DIETARY PROTEINS (administration & dosage); ENGLISH ABSTRACT; HEMODIALYSIS; HUMAN; KIDNEY FAILURE, ACUTE (diet therapy); KIDNEY FAILURE, CHRONIC (complications, diet therapy).

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EFFECTS OF GLUCOSE, GLUCOSE METABOLITES AND CALCIUM IONS ON ADENYLATE CYCLASE ACTIVITY IN HOMOGENATES OF MOUSE PANCREATIC ISLETS. Capito K, Hedeskov CJ *Biochem J* 162: 569-73, 15 Mar 77 (Eng) DL/77SEP489

ADENYL CYCLASE (antagonists & inhibitors, metabolism); ANIMAL; CALCIUM

(pharmacodynamics); CHLOROMERCURIPHENYLSULFONATE (pharmacodynamics); GLUCOSE (metabolism, pharmacodynamics); ISLANDS OF LANGERHANS (drug effects, enzymology); MALE; MICE; PHOSPHOENOLPYRUVATE (pharmacodynamics); PYRUVATES (pharmacodynamics).

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AGED; BILIARY TRACT (physiopathology); CARDIOVASCULAR SYSTEM (physiopathology); CENTRAL NERVOUS SYSTEM (physiopathology); CRITICAL CARE; DIABETES MELLITUS (physiopathology); GASTROINTESTINAL SYSTEM (physiopathology); HEART CATHETERIZATION; HUMAN; KIDNEY (physiopathology); MONITORING SYSTEMS; RESPIRATORY SYSTEM (physiopathology).

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CHD RISK FACTORS IN THE ELDERLY. Castelli WP *Hosp Pract* 11: 113-21, Oct 76 (Eng) DL/77SEP199

AGE FACTORS; AGED; CORONARY DISEASE (etiology); DIABETES MELLITUS (complications); FEMALE; HEART ENLARGEMENT (complications); HUMAN; HYPERTENSION (complications, therapy); LIPIDS (blood); LIPOPROTEINS, HDL (blood); MALE; MIDDLE AGE; RISK; SEX FACTORS; SMOKING (complications); URIC ACID (blood).

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INFLUENCE OF FASTING ON BASAL AND PITUITARY-STIMULATED INSULIN SECRETION FROM PERFUSED PANCREATIC ISLETS OF LEAN AND OBESE MICE. Beloff-Chain A, Bogdanovic S, Cawthorne MA *FEBS Lett* 76: 290-3, 15 Apr 77 (Eng) DL/77SEP167

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[TRANSITORY ANURIA AFTER INTRAVENOUS UROGRAPHY IN 2 DIABETICS] Cenac A, Gryman R, Kremiski J, Perlemuter L, Hazard J *Ann Med Interne (Paris)* 128: 127-30, Feb 77 (Fre) DL/77SEP459

AGED; ANURIA (etiology, therapy); CASE REPORT; CONTRAST MEDIA (adverse effects); DIABETES MELLITUS (complications); FEMALE; HEMODYNAMICS, HUMAN; MALE; PROGNOSIS; URIC ACID; UROGRAPHY (adverse effects, methods).

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ADMINISTRATION, ORAL; ANIMAL; AUTORADIOGRAPHY; BILE (metabolism); BLOOD PROTEINS (metabolism); FECES (analysis); HYPOGLYCEMIC AGENTS (administration & dosage, blood, metabolism); INJECTIONS, INTRAVENOUS; KINETICS; MALE; PROTEIN BINDING; RATS; SULFONYLUREA COMPOUNDS (administration & dosage, blood, metabolism); TIME FACTORS.

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USE OF RITODRINE IN PREGNANT DIABETICS [LETTER]. Chandler CJ *Br Med J* 1: 1159-60, 30 Apr 77 (Eng) DL/77SEP101

ADULT; FEMALE; HUMAN; LABOR, PREMATURE (prevention & control); PREGNANCY IN DIABETES; PREGNANCY; PROPANOLAMINES (therapeutic use); RITODRINE (therapeutic use).

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ADULT; AGED; CARRIER STATE (microbiology, occurrence); DIABETES MELLITUS (complications, microbiology); HUMAN; MALE; MIDDLE AGE; MONILIASIS (complications, occurrence); PSEUDOMONAS INFECTIONS (complications, occurrence); STAPHYLOCOCCAL INFECTIONS (complications, occurrence); STREPTOCOCCAL INFECTIONS (complications, occurrence).

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## Chandler SD

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THE EFFECT OF EPINEPHRINE AND THE HYPERGLYCEMIC FACTOR OF THE SCORPIONS CEPHALOTHORACIC GANGLIONIC MASS (CTGM) ON THE PHOSPHORYLASE ACTIVITY OF HEPATOPANCREAS OF THE SCORPION, HETEROMETRUS FULVIPS C. KOCH. Raghavaiah K, Sreeramachandramurthy M, Ramamurthi R, Satyam P, Chandrasekharam V *Experientia* 33: 690-1, 15 May 77 (Eng) DL/77SEP160

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INFLUENCE OF PREGNANCY ON COURSE OF PRE-EXISTING RENAL DISEASE. Leoux-Robert C, Aldigier J-C, Benevent D, Charmes J-P *Rev Prat* 27: 493-502, 11 Feb 77 (Fre) [21 ref.] DL/77SEP354

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EFFECT OF FASTING + GLUCOSE ADMINISTRATION ON TOLERANCE TO SIMULATED HIGH ALTITUDE IN RATS. Chattopadhyay DP, Dighe SK *Indian J Exp Biol* 14: 328-9, May 76 (Eng) \*DL/77SEP70  
ALTITUDE SICKNESS (mortality, prevention & control); ANIMAL; ANOXIA (prevention & control); FASTING; GLUCOSE (pharmacodynamics); MALE; RATS; TIME FACTORS.

### Chavarria C

[DIABETIC KETOACIDOSIS] Chavarria C *Gac Med Mex* 113: 102-3, Feb 77 (Spa) DL/77SEP185  
ACIDOSIS, DIABETIC.

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EFFECT OF PANCREATIC ADRENERGIC TONE MODIFICATIONS PRIOR TO GLUCOSE-INDUCED INSULIN SECRETION. Basabe JC, Farina JM, Udrisar DP, Chieri R *Horm Metab Res* 9: 108-13, Mar 77 (Eng) DL/77SEP194

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ACROMEGALY (metabolism); ADOLESCENCE; ADULT; ANIMAL; CHILD; CHILD, PRESCHOOL; CRANIOPHARYNGIOMA (metabolism); DWARFISM (metabolism); DWARFISM, PITUITARY (metabolism); ENDOCRINE DISEASES (metabolism); GIGANTISM (metabolism); GROWTH DISORDERS (metabolism); HUMAN; HYPOPARATHYROIDISM (metabolism); INFANT; INFANT, NEWBORN; LIVER CIRRHOSIS (metabolism); NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY (physiology); PITUITARY DISEASES (metabolism); RECEPTORS, HORMONE (metabolism); REVIEW; SOMATOMEDIN (isolation & purification, physiology); SOMATOTROPIN (metabolism); TURNERS SYNDROME (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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PATHOLOGY AND TIME RELATIONSHIP OF PERIPHERAL NERVE CHANGES IN EXPERIMENTAL DIABETES. Chopra JS, Sawhney BB, Chakravorty RN *J Neurol Sci* 32: 53-67, May 77 (Eng) DL/77SEP254

ANIMAL; AXONS (pathology); DEMYELINATION (pathology); DIABETIC NEUROPATHIES (chemically induced, pathology); FEMALE; MALE; MONKEYS; NERVE FIBERS (pathology); PERIPHERAL NERVES (pathology); RANVIERS NODES (pathology); RHESUS MONKEYS; STREPTOZOTOCIN; SURAL NERVE (pathology); TIME FACTORS; WALLERIAN DEGENERATION.

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ADULT; AGED; CARBOHYDRATES (metabolism); COMPARATIVE STUDY; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; LICHEN PLANUS (metabolism); MALE; MIDDLE AGE; MOUTH DISEASES (metabolism); TIME FACTORS.

D-GLYCERIC-ACIDAEMIA IN NON-KETOTIC HYPERGLYCINAEMIA: A NEW INBORN ERROR OF METABOLISM. Brandt NJ, Christensen E, Kolvraas S, Rasmussen K *Ann Clin Biochem* 14: 142-3, May 77 (Eng) DL/77SEP468

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[BLOOD SUGAR AND INSULIN IN CHILDREN WITH A FAMILY HISTORY OF DIABETES] Dziatkowiak H, Nowak S, Chylinska H, Szczepinska O *Pediatr Pol* 52: 387-92, Apr 77 (Pol) DL/77SEP326

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ADOLESCENCE; ADULT; CHILD; GLUCAGON (blood); GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood); PREDIABETIC STATE (blood, diagnosis).

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EFFECTS OF ESTROGEN, GLUCOCORTICOID, GLUCAGON, AND ADENOSINE 3',5'-MONOPHOSPHATE ON CATALYTIC ACTIVITY, AMOUNT, AND RATE OF DE NOVO SYNTHESIS OF HEPATIC HISTIDASE. Lamartiniere CA, Feigelson M *J Biol Chem* 252: 3234-9, 25 May 77 (Eng) DL/77SEP210

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ANIMAL; ANOXIA (metabolism); BLOOD SUGAR (metabolism); BODY TEMPERATURE; BRAIN (drug effects, metabolism); CARBON DIOXIDE (blood); ELECTROENCEPHALOGRAPHY; ENERGY METABOLISM (drug effects); GLUCOSE (cerebrospinal fluid, metabolism); HYPOGLYCEMIA (chemically induced, metabolism); INSULIN (pharmacodynamics); MALE; PHOSPHATES (metabolism); RATS; TIME FACTORS.

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ADOLESCENCE; ADULT; CASE REPORT; COLLAGEN (metabolism); FEMALE; FERRITIN (blood); GLUCOSE TOLERANCE TEST; HEMOCHROMATOSIS (familial & genetic, metabolism, pathophysiology); HUMAN; IRON (blood, metabolism); LIVER CIRRHOSIS (etiology); LIVER (metabolism); MALE;

MIDDLE AGE; PEDIGREE; PITUITARY GLAND (physiopathology); PROLINE HYDROXYLASE (metabolism); SEX FACTORS; TRANSFERRIN (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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CADAVER; DISSECTION; FEMALE; FETUS; GLUCOSE (metabolism); HUMAN; INSULIN (secretion); ISCHEMIA; ISLANDS OF LANGERHANS (blood supply, pathology, physiology, surgery); MALE; MICROSURGERY; MIDDLE AGE; PREGNANCY.

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IDOINSULIN KINETICS IN NORMAL AND DIABETIC SUBJECTS. I. DATA ANALYSIS AND MODELLING. Pilo A, Navalesi R, Ferrannini E, Citti L, Lenzi S, Paci AM *Panminerva Med* 19: 135-8, Mar-Apr 77 (Eng) DL/77SEP319

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ACTION OF OUABAIN, OLIGOMYCIN, AND GLUCAGON ON CULTURED HEART CELLS TREATED WITH ADRIAMYCIN. Necco A, Daddia T, Di Francesco D, Ferroni A *Pharmacol Res Commun* 8: 105-9, Feb 76 (Eng) DL/77SEP339

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PLASMA LEVELS OF GLUCOSE AND INSULIN DURING DEEP HYPOTHERMIA WITH VARYING DEGREES OF HEMODILUTION IN DOGS. Juffe A, Nojek C, Castillo-Olivares JL, Eguaras M, Figuera D *J Cardiovasc Surg (Torino)* 18: 325-8, May-Jun 1977 (Eng) DL/77SEP217

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[REHABILITATION AFTER MYOCARDIAL INFARCT. ASSESSMENT OF RESULT AND POSSIBILITIES FOR THE PROGNOSIS OF SUCCESS] Kuhn P, Bohm H, Ehrenbock R, Niederberger M, Fill WD *Acta Med Austriaca* 4: 28-31, 1977 (Ger) DL/77SEP435

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FAILURE TO DEMONSTRATE A SYNERGISTIC EFFECT BETWEEN ENHANCING SERUM AND ALS IN RECIPIENTS OF PANCREATIC ISLET ALLOGRAFTS. Finch DR, Morris PJ *Transplantation* 23: 386-8, Apr 77 (Eng) DL/77SEP376

ANIMAL; ANTIBODIES; ANTI LYMPHOCYTE SERUM (therapeutic use); DRUG SYNERGISM; GRAFT SURVIVAL; IMMUNOSUPPRESSION; ISLANDS OF LANGERHANS (transplantation); RATS; SPECIES SPECIFICITY; TRANSPLANTATION, ALLOGENEIC.



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HYPOGLYCEMIA ASSOCIATED WITH CON-  
GENITAL SYPHILIS. Fiser RH Jr, Yamauchi T  
*J Arkansas Med Soc* 73: 494-5, May 77 (Eng)  
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CASE REPORT; FEMALE; HUMAN;  
HYPOGLYCEMIA (complications); INFANT;  
SYPHILIS, CONGENITAL (complications).

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EFFECT OF DIETARY LINOLEATE ON  
SYNTHESIS AND DEGRADATION OF FATTY  
ACID SYNTHETASE FROM RAT LIVER. Flick  
PK, Chen J, Vagelos PR *J Biol Chem* 252: 4242-  
9, 25 Jun 77 (Eng) DL/77SEP214

ANIMAL; DIETARY FATS; ENZYME  
INDUCTION (drug effects); FATTY ACID  
SYNTHETASE COMPLEX (metabolism);  
INDOMETHACIN (pharmacodynamics);  
INSULIN (blood); LINOLEIC ACIDS  
(pharmacodynamics); LIVER (enzymology);  
MALE; RATS; SAFFLOWER OIL  
(pharmacodynamics); TRANSLATION,  
GENETIC.

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USE OF ANTI-RECEPTOR ANTIBODIES AS  
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EFFECTS OF PEPTIDE ANABOLIC HOR-  
MONES ON GROWTH OF MYOBLASTS IN  
CULTURE. Florini JR, Nicholson ML, Dulak  
NC *Endocrinology* 101: 32-41, Jul 77 (Eng)  
DL/77SEP147

ANIMAL; BODY WEIGHT (drug effects); CELL  
DIVISION (drug effects); CELLS, CULTURED;  
COMPARATIVE STUDY;  
HYPOPHYSECTOMY; INSULIN  
(pharmacodynamics); MALE; MUSCLES  
(cytology); RATS; SOMATOMEDIN  
(pharmacodynamics); SOMATOTROPIN  
(metabolism, pharmacodynamics); UNITED  
STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ELECTRORETINOGRAPHIC CHANGES AND  
CHOROIDAL DEFECTS IN A CASE OF CENT-  
RAL RETINAL ARTERY OCCLUSION.  
Flower RW, Speros P, Kanyon KR *Am J Ophthal-*  
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ADAPTATION, OCULAR; ANOXIA  
(physiopathology); CASE REPORT; CHOROID  
(blood supply); CONSTRICTION, PATHOLOGIC  
(physiopathology); DARK ADAPTATION;  
DIABETES MELLITUS (complications);  
ELECTRORETINOGRAPHY; EVOKED  
POTENTIALS; FEMALE; FUNDUS  
FLUORESCENCE PHOTOGRAPHY; HUMAN;  
LIGHT; MIDDLE AGE; RETINA  
(physiopathology); RETINAL ARTERY  
(physiopathology); RETINAL VESSELS  
(physiopathology); UNITED STATES  
GOVERNMENT SUPPORTED, N.I.H. ); UVEAL  
DISEASES (physiopathology); VASCULAR  
DISEASES (physiopathology).

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EFFECT OF INSULIN OF DEHYDROGENASES  
OF PENTOSEPHOSPHATE PATHWAY AND  
CONTENT OF FREE FATTY ACIDS IN RAT  
KIDNEY] Fomina MP *Vopr Med Khim* 22: 812-  
5, Nov-Dec 76 (Rus) DL/77SEP408

ALLOXAN DIABETES (metabolism); ANIMAL;  
ENGLISH ABSTRACT; FATTY ACIDS,  
NONESTERIFIED (analysis, metabolism);  
GLUCOSEPHOSPHATE DEHYDROGENASE  
(analysis, metabolism);  
GLUCOSEPHOSPHATES; INSULIN  
(pharmacodynamics); KIDNEY CORTEX

(analysis, metabolism); KIDNEY MEDULLA  
(analysis); KIDNEY MEDULLA (metabolism);  
KIDNEY (metabolism); LIVER (metabolism);  
MALE; PENTOSEPHOSPHATES (metabolism);  
PHOSPHOGLUCONATE DEHYDROGENASE  
(analysis, metabolism); RATS;  
SPECTROPHOTOMETRY.

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SALBUTAMOL THERAPY IN ACUTE  
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Clarke SW, Wills MR *Thorax* 32: 182-4, Apr 77  
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EFFECT OF FASTING AND STREPTOZOTOCIN  
IN THE OBESE-HYPERGLYCEMIC (OB/OB)  
MOUSE. APPARENT LACK OF A DIRECT  
RELATIONSHIP BETWEEN INSULIN BIND-  
ING AND INSULIN EFFECTS. Le Marchand Y,  
Loten EG, Assimacopoulos-Jeannot F, Forgue  
ME, Freychet P, Jeanrenaud B *Diabetes* 26: 582-  
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[SIDE EFFECTS OF SUGAR SUBSTITUTES]  
Forster H *Dtsch Zahnärztl Z* 32: 543-53, 1977  
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ADMINISTRATION, ORAL; DIARRHEA  
(chemically induced); FATTY LIVER (etiology);  
GLUCOSE (metabolism); GLYCERIN  
(metabolism); HUMAN; INSULIN (secretion);  
LACTATES (blood); LIVER (metabolism);  
SORBITOL (adverse effects); SWEETENING  
AGENTS (adverse effects); URIC ACID (blood);  
XYLITOL (adverse effects).

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CONGENITAL GENERALIZED LIPODYS-  
TROPHY AND EXPERIMENTAL  
LIPOATROPHIC DIABETES IN RABBITS  
TREATED SUCCESSFULLY WITH FENFLU-  
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(Kbh) 85: 436-48, Jun 77 (Eng) DL/77SEP428

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FAMILIAL HEMOCHROMATOSIS.  
PHYSIOLOGIC STUDIES IN THE PRECIR-  
RHOTIC STAGE OF THE DISEASE. Feller ER,  
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rides IA, Inselbacher KJ *N Engl J Med* 296: 1422-  
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HANS - A NEW HOPE FOR DIABETES. Fox M  
*Nurs Mirror* 144: 50-2, 5 May 77 (Eng)  
DL/77SEP333

ANIMAL; DIABETES MELLITUS (therapy);  
HUMAN; ISLANDS OF LANGERHANS  
(transplantation); RATS; TRANSPLANTATION,  
HOMOLOGOUS.

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REGIONAL RELEASE OF GLUCAGON-LIKE  
IMMUNOREACTIVITY FROM THE IN-  
TESTINE OF THE CAT. Frame CM *Horm*  
*Metab Res* 9: 117-20, Mar 77 (Eng)  
DL/77SEP196

ANIMAL; CATS (metabolism); COLON  
(metabolism); GLUCAGON (blood, immunology,  
metabolism); GLUCOSE (pharmacodynamics);  
ILEUM (metabolism); INTESTINES  
(metabolism); JEJUNUM (metabolism);  
RADIOIMMUNOASSAY; STOMACH  
(metabolism); UNITED STATES  
GOVERNMENT SUPPORTED, N.I.H. );  
UNITED STATES GOVERNMENT  
SUPPORTED, NON-N.I.H. ).

## Francke-Mader M

NON-SUPPRESSIBLE INSULIN-LIKE ACTIVI-  
TY DURING ACUTE METABOLIC AND EN-

DOCRINE CHANGES IN DOGS. Eigenmann  
JE, Francke-Mader M, Zapf J, Froesch ER *Acta*  
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CYCLASE IN BROKEN CELL PREPARA-  
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ADENYL CYCLASE (metabolism); ANIMAL;  
CELLS, CULTURED; ENZYME ACTIVATION;  
GASTRIC INHIBITORY POLYPEPTIDE  
(pharmacodynamics); GASTROINTESTINAL  
HORMONES (pharmacodynamics); GLUCAGON  
(pharmacodynamics); ISLANDS OF  
LANGERHANS (enzymology); MICE;  
MONOGRAPH (mortality); SECRETIN  
(pharmacodynamics); VASOACTIVE  
INTESTINAL PEPTIDE (pharmacodynamics).

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VULNERABILITY OF ALLOGENEIC AND  
XENOGENEIC PANCREATIC ISLETS TO AL-  
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ANIMAL; DIABETES MELLITUS (chemically  
induced); IMMUNE SERUMS  
(pharmacodynamics); IMMUNE TOLERANCE;  
ISLANDS OF LANGERHANS (transplantation);  
ISOANTIBODIES; MICE; MICE, INBRED  
C57BL; RATS; RATS, INBRED ACI; RATS,  
INBRED BN; RATS, INBRED WF; SKIN  
(transplantation); STREPTOZOTOCIN;  
TRANSPLANTATION, ALLOGENEIC;  
TRANSPLANTATION, HETEROLOGOUS;  
UNITED STATES GOVERNMENT  
SUPPORTED, N.I.H. ).

## Franklin RC

A BIOASSAY FOR NSILA-S IN INDIVIDUAL  
SERUM SAMPLES AND ITS RELATIONSHIP  
TO SOMATOTROPIN. Franklin RC, Rennie  
GC, Burger HG, Cameron DP *J Clin Endocrinol*  
*Metab* 43: 1164-9, Nov 76 (Eng) \*DL/77SEP72

ACROMEGALY (blood); BIOLOGICAL ASSAY;  
HUMAN; HYPOPITUITARISM (blood);  
NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY  
(analysis); SOMATOTROPIN (blood).

## Fraser DM

PERIPHERAL AND AUTONOMIC NERVE  
FUNCTION IN NEWLY DIAGNOSED  
DIABETES MELLITUS. Fraser DM, Campbell  
IW, Ewing DJ, Murray A, Neilson JM, Clarke BF  
*Diabetes* 26: 546-50, Jun 77 (Eng)  
DL/77SEP177

ADOLESCENCE; ADULT; AUTONOMIC  
NERVOUS SYSTEM (physiopathology);  
CHLORPROPAMIDE (therapeutic use);  
DIABETES MELLITUS (drug therapy,  
physiopathology); HUMAN; HYPOTENSION,  
ORTHOSTATIC; INSULIN (therapeutic use);  
MALE; MEDIAN NERVE (physiopathology);  
MIDDLE AGE; NEURAL CONDUCTION;  
PERIPHERAL NERVES (physiopathology);  
PERONEAL NERVE (physiopathology); ULNAR  
NERVE (physiopathology); VALSALVAS  
MANEUVER.

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THE SITE OF INSULIN RESISTANCE AFTER  
INJURY. Frayn KN *Endocrinology* 101: 312-4,  
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ANIMAL; BLOOD SUGAR (metabolism);  
EXTRACELLULAR SPACE (metabolism);  
GLUCOSE (metabolism); INSULIN  
RESISTANCE; MALE; MUSCLES (injuries,  
metabolism); RATS.

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RATES OF GLUCOSE UTILIZATION AND GLUCOGENESIS IN RATS IN THE BASAL STATE INDUCED BY HALOTHANE ANAESTHESIA. Heath DF, Frayn KN, Rose JG *Biochem J* 162: 643-51, 15 Mar 77 (Eng) DL/77SEP491

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ADULT; AMINO ACIDS (administration & dosage); COMPARATIVE STUDY; DIETARY CARBOHYDRATES; EVALUATION STUDIES; FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLUCAGON (blood); GLUCOSE; HUMAN; INSULIN (blood); KETONE BODIES (blood); LIPIDS (metabolism); MALE; MIDDLE AGE; NITROGEN (metabolism); PARENTERAL FEEDING; PARENTERAL HYPERALIMENTATION; POSTOPERATIVE CARE; SOMATOTROPIN (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. )

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PLEIOTYPIC RESPONSE OF RAT HEART CELLS IN CULTURE TO SERUM STIMULATION. Frelin C, Padieu P *Biochimie* 58: 953-9, 1976 (Eng) \*DL/77SEP46

AMINOISOBUTYRIC ACID (metabolism); ANIMAL; BIOLOGICAL TRANSPORT; ACTIVE; BLOOD; CELLS, CULTURED; CULTURE MEDIA; DNA REPLICATION; GLUCOSE (metabolism); HEART (physiology); KINETICS; MUSCLE PROTEINS (metabolism); MYOCARDIUM (metabolism); RATS; TRANSCRIPTION, GENETIC; TRANSLATION, GENETIC.

## Frerichs H

INSULIN RELEASE FROM ISOLATED RAT PANCREATIC ISLETS INDUCED BY ALPHAKETOISOCAPRONIC ACID, L-LEUCINE, D-GLUCOSE OR D-GLYCERALDEHYDE: EFFECT OF GASTRIC INHIBITORY POLYPEPTIDE OR GLUCAGON. Schauder P, Schindler B, Panten U, Brown JC, Frerichs H, Creutzfeldt W *Mol Cell Endocrinol* 7: 115-23, Apr 77 (Eng) DL/77SEP173

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INSULIN AND GLUCAGON-RECEPTOR INTERACTIONS IN THE GENETICALLY OBESE ZUCKER RAT: STUDIES OF HORMONE BINDING AND GLUCAGON-STIMULATED CYCLIC AMP LEVELS IN ISOLATED HEPATOCYTES. Broer Y, Freychet P, Rosselin G *Endocrinology* 101: 236-49, Jul 77 (Eng) DL/77SEP145

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RELATIONSHIP BETWEEN INSULIN BINDING AND INSULIN EFFECTS. Le Marchand Y, Loten EG, Assimacopoulos-Jeannet F, Forge ME, Freychet P, Jeanraud B *Diabetes* 26: 582-90, Jun 77 (Eng) DL/77SEP182

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ISLET OF LANGERHANS ALLOTRANSPLANTATION IN THE RAT. Nelken D, Friedman EA, Morse SI, Beyer MM *Transplant Proc* 9: 333-6, Mar 77 (Eng) DL/77SEP387

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HORMONE BINDING BY HUMAN MAMMARY CARCINOMA. Holdaway IM, Friesen HG *Cancer Res* 37: 1946-52, Jul 77 (Eng) DL/77SEP119

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LACK OF EFFECT OF SOMATOSTATIN ON TSH INDUCED T3 RELEASE AND PLATELET FUNCTION IN NORMAL MAN. Faber J, Gormsen J, Fris T, Kirkegaard C, Lauridsen UB, Nerup J, Rogowski P, Siersbaek-Nielsen K *Horm Metab Res* 9: 165-6, Mar 77 (Eng) DL/77SEP198

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CONTRAST SENSITIVITY IN MACULAR DISEASE. A PRELIMINARY REPORT. Sjostrand J, Frisen L *Acta Ophthalmol (Kbh)* 55: 507-14, Jun 77 (Eng) DL/77SEP436

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NON-SUPPRESSIBLE INSULIN-LIKE ACTIVITY DURING ACUTE METABOLIC AND ENDOCRINE CHANGES IN DOGS. Eigenmann JE, Francke-Mader M, Zapf J, Froesch ER *Acta Endocrinol (Kbh)* 85: 571-8, Jul 77 (Eng) DL/77SEP431

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[EFFECT OF A REDUCED DIET ON HYPERLIPOPROTEINEMIA IN METABOLIC-ALIMENTARY OBESITY] Frolova IA, Oleneva VA, Zhukova LP *Vopr Pitn* 39-43, Sep-Oct 76 (Rus) \*DL/77SEP35

ADOLESCENCE; ADULT; AGE FACTORS; AGED; DIET, REDUCING; ENGLISH ABSTRACT; HUMAN; HYPERCHOLESTEREMIA (complications); HYPERLIPIDEMIA (blood, complications); LIPOPROTEINS, LDL (blood); LIPOPROTEINS, VLDL (blood); MIDDLE AGE; OBESITY (complications, diet therapy); TRIGLYCERIDES (blood).

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[KLINEFELTERS SYNDROME IN 19 YEAR OLD ADOLESCENTS. (100 CASES DETECTED DURING SELECTION FOR NATIONAL SERVICE)] Fromantin M, Pesquies P, Serrurier B, Gautier D, Canivet B, Grenier J, Scholler R *Ann Med Interne (Paris)* 128: 239-44, Mar 77 (Fre) DL/77SEP461

ADULT; ANDROGENS (blood); ANOSMIA (complications); BLOOD SUGAR; DEXAMETHASONE (diagnostic use); DISEASES IN TWINS; ENGLISH ABSTRACT; GONADOTROPINS, CHORIONIC (diagnostic use); HUMAN; INSULIN (blood);

KARYOTYPING; KLINEFELTERS SYNDROME (blood, diagnosis); MALE; MATERNAL AGE.

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EFFECT OF HLA MATCHING ON CADAVER KIDNEY FUNCTION: EXPERIENCE AT A SINGLE LARGE CEN<sup>1</sup> ER. Simmons RL, Yunis EJ, Norcen H, Thom, in EJ, Fryd DS, Najarian JS *Transplant Proc* 9: 491-3, Mar 77 (Eng) DL/77SEP392

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ELEVATION OF PLASMA CORTICOSTERONE BY SWIM STRESS AND INSULIN-INDUCED HYPOGLYCEMIA IN CONTROL AND FLUOXETINE-PRETREATED RATS. Fuller RW, Snoddy HD *Endocr Res Commun* 4: 11-23, 1977 (Eng) DL/77SEP142

ANIMAL; CORTICOSTERONE (blood); HYDROXYTRYPTOPHAN (pharmacodynamics); HYPOGLYCEMIA (blood, chemically induced); INSULIN; MALE; PHENYL ETHERS (pharmacodynamics); PROPYLAMINES (pharmacodynamics); RATS; STRESS (physiopathology); SWIMMING; TIME FACTORS.

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CASE REPORT; DIARRHEA (drug therapy, etiology); FEMALE; HUMAN; HYPOKALEMIA (drug therapy); ISLET CELL TUMOR (drug therapy, ultrastructure); MIDDLE AGE; PANCREATIC NEOPLASMS (drug therapy, ultrastructure); STOMACH DISEASES (drug therapy); STREPTOZOTOCIN (therapeutic use); SYNDROME; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ); VASOACTIVE INTESTINAL PEPTIDE (blood, physiology).

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ADULT; ALANINE (blood); BLOOD SUGAR (metabolism); EPINEPHRINE (blood); EXERTION; FATTY ACIDS, NONESTERIFIED (blood); GLUCAGON (blood); GLUCOSE (pharmacodynamics); GLYCERIN (blood); GLYCOGEN (metabolism); HUMAN; INSULIN (blood); MALE; MUSCLES (metabolism); NOREPINEPHRINE (blood); PROPRANOLOL (pharmacodynamics); TIME FACTORS.

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[DIABETIC MICROANGIOPATHY IN CHILDHOOD. STUDY OF 10 CASES] Galli V, Mascolo F, Tamborino G, Genova R *Minerva Pediatr* 29: 513-7, 10 Mar 77 (Ita) DL/77SEP295

CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE (diagnosis, pathology); DIABETIC ANGIOPATHIES (diagnosis, pathology); FEMALE; HUMAN; KIDNEY (pathology); MALE.

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**CHEMISTRY; CHOLESTEROL; DEUTERIUM; FATTY ACIDS; NUCLEAR MAGNETIC RESONANCE; PHOSPHATIDYLCHOLINES; SPIN LABELS.**

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**[EVALUATION OF DIABETIC GLYCEMIC CONTROL IN HOSPITAL AND EXTRA-HOSPITAL REGIMEN (AUTHORS TRANSL)]** Attardo R, Zanno C, Gamba S, Papotti G, Barbero PL, Bruni B *Ann Osp Maria Vittoria Torino* 19: 102-17, Jan-Jun 76 (Ita) DL/77SEP464

**[LONG-TERM CLINICAL RESULTS WITH MONOCOMPONENT INSULIN (MC LENTE) IN INFANTILE AND JUVENILE DIABETES]** Bruni KB, Neirotti R, Albonico G, Gamba S, Regis G, Dadda A, Soldano E, Bruni B *Ann Osp Maria Vittoria Torino* 19: 7-26, Jan-Jun 76 (Ita) DL/77SEP465

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**ADDISON'S DISEASE (immunology); ADRENAL CORTEX (immunology); ADULT; ANTIBODIES (analysis); DIABETES MELLITUS (immunology); FEMALE; HUMAN; INFANT, NEWBORN; ISLANDS OF LANGERHANS (immunology); MATERNAL-FETAL EXCHANGE; PREGNANCY IN DIABETES (immunology); PREGNANCY.**

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**ENDOCRINE CONTROL OF PLASMA PROTEIN AND VOLUME.** Gann DS *Surg Clin North Am* 56: 1135-45, Oct 76 (Eng) \*DL/77SEP32

**ANIMAL; BLOOD PROTEINS (physiology); BLOOD VOLUME; CAPILLARY PERMEABILITY; CORTICOTROPIN (secretion); ENDOCRINE GLANDS (physiopathology); EXTRACELLULAR SPACE (physiology); HEART ATRIUM (physiopathology); HEMORRHAGE (physiopathology); HEMOSTASIS; HORMONES (physiology); HUMAN; HYPOTENSION (physiopathology); LYMPHATIC SYSTEM (physiopathology); MECHANORECEPTORS (physiology); OSMOTIC PRESSURE; PRESSORECEPTORS (physiopathology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; VASCULAR RESISTANCE; WATER-ELECTROLYTE BALANCE.**

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**GLUCAGON RESPONSE TO ARGININE STIMULATION IN OBESE AND DIABETIC CHILDREN.** Meschi F, Garlaschi C, Di Natale B, Del Guercio MJ, Gargantini L, Chiumello G *Diabetes* 26: 558-60, Jun 77 (Eng) DL/77SEP179

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**BINDING OF GONADOTROPIN-RELEASING HORMONE (LH-RH) TO THE PITUITARY**

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**BRAIN DISEASES (etiology); ENGLISH ABSTRACT; HUMAN; HYPOGLYCEMIA (complications).**

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**ACIDOSIS, DIABETIC (drug therapy); HUMAN; INSULIN (administration & dosage, therapeutic use); KETOSIS, DIABETIC (drug therapy).**

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**[HYPOTHALAMUS, OBESITY, DIABETES MELLITUS AND INSULIN SECRETION]** Genes SG *Klin Med (Mosk)* 55: 14-20, Apr 77 (Rus) DL/77SEP277

**ANIMAL; CATS; DIABETES MELLITUS (physiopathology); DOGS; HUMAN; HYPOTHALAMUS (physiopathology); INSULIN (secretion); MICE; MONKEYS; OBESITY (physiopathology); RATS.**

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**DIABETES MELLITUS AND THE GASTROINTESTINAL TRACT. PART II: SMALL AND LARGE INTESTINE AND GALLBLADDER.** Globberman S *Ariz Med* 34: 174-5, Mar 77 (Eng) DL/77SEP480

**ADOLESCENCE; ADULT; CELIAC DISEASE (complications); CHOLECYSTITIS (complications); CHOLELITHIASIS (complications); CONSTIPATION (complications); DIABETES MELLITUS (complications); DIARRHEA (complications); DUODENAL ULCER (complications); FEMALE; GALLBLADDER DISEASES (complications); GASTROINTESTINAL DISEASES (complications, etiology); HUMAN; MALE.**

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**ALLOXAN DIABETES (complications, pathology); ANIMAL; FISHES; LIVER DISEASES (etiology, pathology); NECROSIS.**

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**ANIMAL; ENGLISH ABSTRACT; FISHES (embryology); HYDROCORTISONE (pharmacodynamics); INSULIN (pharmacodynamics); MEMBRANE POTENTIALS (drug effects); RNA (pharmacodynamics).**

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**N-NITROSO DERIVATIVES OF HYDROCHLOROTHIAZIDE, NITRIDAZOLE, AND TOLBUTAMIDE.** Gold B, Mirvish SS *Toxicol Appl Pharmacol* 40: 131-6, Apr 77 (Eng) DL/77SEP374

**ANIMAL; CHEMISTRY; DRUG STABILITY; HYDROCHLOROTHIAZIDE (analogs & derivatives, chemical synthesis, toxicity); KINETICS; LETHAL DOSE 50; MALE; METHODS; NITRIDAZOLE (analogs & derivatives, chemical synthesis, toxicity); NITROSO COMPOUNDS (chemical synthesis, toxicity); RATS; SOLUBILITY; TOLBUTAMIDE (analogs & derivatives, chemical synthesis, toxicity); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).**

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**ADULT; ANIMAL; BINDING SITES; FEMALE; HUMAN; INSULIN RESISTANCE; MICE; RECEPTORS, INSULIN (physiology).**

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**[EFFECT OF LITHIUM CHLORIDE ON KIDNEY FUNCTION IN RATS]** Gorjanov OA *Farmakol*

*Toksikol* 39: 280-3, May-Jun 76 (Rus) DL/77SEP164

**ANIMAL; ANURIA (chemically induced); CREATININE (blood); DIURESIS (drug effects); ENGLISH ABSTRACT; FEMALE; GLOMERULAR FILTRATION RATE; GLYCOSURIA (chemically induced); KIDNEY TUBULES (secretion); KIDNEY (drug effects, physiology); LITHIUM (adverse effects, pharmacodynamics); MALE; POLYURIA (chemically induced); PROTEINURIA (chemically induced); RATS; UREA (metabolism).**

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INCOMPATIBILITY; DRUG WITHDRAWAL SYMPTOMS (etiology); HUMAN; HYPERTENSION (complications, drug therapy); POSTOPERATIVE COMPLICATIONS (etiology); PROPRANOLOL (adverse effects).

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INHIBITORY POLYPEPTIDE  
(pharmacodynamics); GASTROINTESTINAL  
HORMONES (pharmacodynamics); GLUCAGON  
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INTESTINES; ISLANDS OF LANGERHANS  
(drug effects, secretion); MICE; MONOGRAPH  
(mortality); TISSUE EXTRACTS  
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inhibitors); ANIMAL; DIGOXIN (toxicity);  
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HYPOKALEMIA (chemically induced,  
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TACHYCARDIA (chemically induced); UNITED  
STATES GOVERNMENT SUPPORTED, N.I.H. ).

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MELLITUS (radiography); DIAGNOSIS,  
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INFECTIONS (radiography); FEMALE; HUMAN;  
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BENZYLAMINES (blood, toxicity); DOGS;  
DRUGS (blood); EXPECTORANTS (blood,  
toxicity); HYPOGLYCEMIC AGENTS (toxicity);  
KINETICS; SULFONYLUREA COMPOUNDS  
(blood, toxicity); TOXICOLOGY (methods).

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ACINAR CELLS IN RATS WITH  
STREPTOZOTOCIN-INDUCED DIABETES.  
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DNA (biosynthesis); ISLANDS OF  
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MALE; RATS; STREPTOZOTOCIN  
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PANCREATITIS (complications);  
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(etiology); WATER-ELECTROLYTE  
IMBALANCE (etiology).

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DIABETIC KETOACIDOSIS; CORRELATION  
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ION CONCENTRATION (physiology); KETOSIS,  
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(blood); SODIUM (blood); SOMATOTROPIN  
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physiopathology); INSULIN (pharmacodynamics);  
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GLUCOSE TOLERANCE TEST; GLUCOSE  
(adverse effects, metabolism); HUMAN; INSULIN  
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STARCH (diagnostic use, metabolism).

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STOMACH (innervation).

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CORTICOTROPIN RELEASING HORMONE  
(metabolism); FSH (metabolism); HORMONES;  
HUMAN; HYPOTHALAMUS (metabolism,  
physiology, secretion); LH (metabolism); LH-FSH  
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PITUITARY GLAND (physiology);  
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REGIONS; CARDIOVASCULAR DISEASES  
(occurrence); CULTURAL DEPRIVATION;  
DENMARK (ethnology); DIABETES MELLITUS  
(occurrence); ESKIMOS; GLAUCOMA  
(occurrence); GREENLAND; HEALTH  
SERVICES; HUMAN; MYOPIA (occurrence);  
RESEARCH.

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A CARDIOSELECTIVE BETA ADRENERGIC

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**ABNORMALITIES (etiology); ADOLESCENCE; ADULT; AGED; BELGIUM; CHILD; DIABETES MELLITUS (familial & genetic); FEMALE; GENETIC COUNSELING; HUMAN; INFANT, NEWBORN; MALE; MIDDLE AGE; PREGNANCY IN DIABETES; PREGNANCY.**

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**ANESTHESIA, INHALATION; ANIMAL; BASAL METABOLISM; BLOOD SUGAR (analysis); CHROMATOGRAPHY, ION EXCHANGE; CHROMATOGRAPHY, PAPER; COMPARATIVE STUDY; GLUCOSE (biosynthesis, metabolism); HALOTHANE (pharmacodynamics); INSULIN (blood); KINETICS; MALE; RATS.**

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**CARCINOID TUMOR (pathology); CARCINOMA, OAT CELL (pathology); GASTRIN (secretion); GASTROINTESTINAL NEOPLASMS; GLUCAGON (biosynthesis); HUMAN; INTESTINAL MUCOSA (pathology); ISLANDS OF LANGERHANS (pathology); ISLET CELL TUMOR (pathology); NEOPLASTIC ENDOCRINE-LIKE SYNDROMES (embryology); NEUROSECRETORY SYSTEMS (cytology); PEPTIDES (secretion).**

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**HYDROCHLORIC ACID (pharmacodynamics); HYDROGEN-ION CONCENTRATION (physiology); MOTILIN (blood, physiology); PHENYLALANINE (pharmacodynamics); PRESSURE; SODIUM HYDROXIDE (pharmacodynamics); STOMACH (drug effects); TIME FACTORS.**

## Hellerstrom C

**STRUCTURAL AND FUNCTIONAL INTEGRITY OF ISOLATED HUMAN ISLETS OF LANGERHANS MAINTAINED IN TISSUE CULTURE FOR 1-3 WEEKS.** Lundgren G, Andersson A, Borg H, Buschard K, Groth CG, Gunnarsson R, Hellerstrom C, Petersson B, Ostman J *Transplant Proc* 9: 237-40, Mar 77 (Eng) DL/77SEP383

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**ACETIC ACIDS (urine); ACETYLATION; ACIDOSIS, DIABETIC (urine); ALLOXAN DIABETES (urine); AMINOBUTYRIC ACIDS (urine); ANIMAL; FATTY ACIDS (metabolism); FEMALE; KETOSIS, DIABETIC (urine); PALMITATES (metabolism); RATS; STEARATES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).**

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ANIMAL; DOGS; DOSE-RESPONSE RELATIONSHIP, DRUG; FOOD; GASTRIC JUICE (secretion); GASTRIC MUCOSA (blood supply); GASTRIN (blood, secretion); GASTROINTESTINAL HORMONES (pharmacodynamics); HISTAMINE (pharmacodynamics); MOTILIN (analogs & derivatives, administration & dosage, pharmacodynamics); PANCREATIC JUICE (secretion); PENTAGASTRIN (pharmacodynamics); PEPSIN (secretion); REGIONAL BLOOD FLOW (drug effects); SECRETIN (pharmacodynamics); SECRETORY RATE (drug effects).

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CHROMATOGRAPHY, GEL; ENGLISH ABSTRACT; INSULIN (radiation effects); SOLUTIONS; WATER.

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[KALLIKREIN-GEN-KALLIKREIN SYSTEM IN THE BLOOD OF PATIENTS WITH VASCULAR COMPLICATIONS OF DIABETES] Kaniak J, Kotschy M, Kurzawska M, Ciolek W *Pol Tyg Lek* 32: 705-7, 9 May 77 (Pol) DL/77SEP334

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[EFFECT OF INSULIN AND HYDROCORTISONE ON THE ISOENZYME COMPOSITION OF PYRUVATE KINASE IN THE RABBIT KIDNEY] Kozhevnikova KA *Vopr Med Khim* 22: 773-8, Nov-Dec 76 (Rus) DL/77SEP406

ALLOXAN DIABETES (enzymology); ANIMAL; CHROMATOGRAPHY, DEAE-CELLULOSE; ENGLISH ABSTRACT; FASTING; HYDROCORTISONE (pharmacodynamics); INSULIN, PROTAMINE ZINC (pharmacodynamics); ISOENZYMES (analysis, metabolism); KIDNEY CORTEX (analysis, enzymology); MALE; PYRUVATE KINASE (analysis, metabolism); PYRUVATES; RABBITS; TIME FACTORS.

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ENGLISH ABSTRACT; EVALUATION STUDIES; FEMALE; HUMAN; HYPERTENSION (complications); MALE; MIDDLE AGE; MYOCARDIAL INFARCT (diagnosis, etiology, rehabilitation); PROGNOSIS; REHABILITATION, VOCATIONAL; RETIREMENT.

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EFFECTS OF ESTROGEN, GLUCOCORTICOID, GLUCAGON, AND ADENOSINE 3:5-MONOPHOSPHATE ON CATALYTIC ACTIVITY, AMOUNT, AND RATE OF DE NOVO SYNTHESIS OF HEPATIC HISTIDASE. Lamartiniere CA, Feigelson M *J Biol Chem* 252: 3234-9, 25 May 77 (Eng) DL/77SEP210

AMMONIA-LYASES (metabolism); ANIMAL; ANTIBODIES (analysis); CATALYSIS; DIBUTYRYL CYCLIC AMP (pharmacodynamics); ENZYME ACTIVATION (drug effects); ENZYME INDUCTION (drug effects); ESTRADIOL (pharmacodynamics); FEMALE; GLUCAGON (pharmacodynamics); HISTIDASE (biosynthesis, immunology, metabolism); HYDROCORTISONE (pharmacodynamics); LIVER (enzymology); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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CHYMOTRYPSINOGEN D, A NEW ZYMOGEN FROM PORCINE PANCREAS WITH PROELASTOLYTIC ACTIVITY. Lamy F, Gibson D, Ledoux M, Moreux JC *Adv Exp Med Biol* 79: 165-75, 1977 (Eng) DL/77SEP441

AMINO ACID SEQUENCE; ANIMAL; CHYMOTRYPSINOGEN (isolation &

purification, metabolism); ELASTIN (metabolism); ENZYME PRECURSORS (isolation & purification, metabolism); INSULIN (metabolism); MOLECULAR WEIGHT; PANCREAS (enzymology); PANCREATOPEPTIDASE (isolation & purification, metabolism); SWINE.

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AMINO ACIDS (metabolism); BIOLOGICAL TRANSPORT, ACTIVE; CELL DIVISION; STREPTOMYCES (growth & development, metabolism).

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ANIMAL; BLOOD SUGAR (metabolism); HISTOCYTOCHEMISTRY; INSULIN (blood); ISLANDS OF LANGERHANS (metabolism, pathology); LIPIDS (blood); OBESITY (metabolism, pathology, veterinary); PANCREAS (metabolism); PEPTIDES (metabolism); RATS; RATS, INBRED STRAINS.

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[THORACIC SYMPATHECTOMY IN THE OVERALL TREATMENT OF ANGIOTROPIC NEUROSES] Volkolakov IaV, Leishe AA, Latsis GV *Khirurgia (Mosk)* 7-12, May 77 (Rus) DL/77SEP271

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ADULT; AGED; AMENORRHEA (complications); BREAST NEOPLASMS (complications); DIABETES MELLITUS (complications); ENGLISH ABSTRACT; FEMALE; GERMANY, EAST; HUMAN; HYPERTENSION (complications); MENARCHE; MENOPAUSE; MIDDLE AGE; OVARIAN NEOPLASMS (complications, etiology, occurrence).

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EFFECT OF FASTING AND STREPTOZOTOCIN IN THE OBESE-HYPERGLYCEMIC (OB/OB) MOUSE. APPARENT LACK OF A DIRECT RELATIONSHIP BETWEEN INSULIN BINDING AND INSULIN EFFECTS. Le Marchand Y, Loten EG, Assimacopoulos-Jeannet F, Forge ME, Freychet P, Jeanrenaud B *Diabetes* 26: 582-90, Jun 77 (Eng) DL/77SEP182  
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ADOLESCENCE; ADULT; BLOOD SUGAR (analysis); CHILD; CHILD, PRESCHOOL; COMPARATIVE STUDY; CORTICOTROPIN (diagnostic use); CORTODOXONE (blood); ENDOCRINE DISEASES (diagnosis); FEMALE; HUMAN; HYDROCORTISONE (blood); INFANT; INSULIN (diagnostic use); LYSINE VASOPRESSIN (diagnostic use); MALE; METYRAPONE (adverse effects, diagnostic use); SOMATOTROPIN (blood).

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AUTOIMMUNE DISEASES; BREAST NEOPLASMS (etiology); DIABETES MELLITUS (complications); FEMALE; HUMAN; RISK; THYROID DISEASES (complications).

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PLASMA INSULIN DETECTION IN THE STUDY OF PREDIABETIC SUBJECTS. Lenti G, Pagano G, Trovati M, Pisu E *Panminerva Med* 19: 87-94, Mar-Apr 77 (Eng) DL/77SEP321  
GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood); PREDIABETIC STATE (blood, diagnosis).

## Lentz BR

FLUORESCENCE DEPOLARIZATION STUDIES OF PHASE TRANSITIONS AND FLUIDITY IN PHOSPHOLIPID BILAYERS. 1. SINGLE COMPONENT PHOSPHATIDYLCHOLINE LIPOSOMES. Lentz BR, Barenholz Y, Thompson TE *Biochemistry* 15: 4521-8, 5 Oct 76 (Eng) \*DL/77SEP2

BINDING SITES; KINETICS; LIPOSOMES; MATHEMATICS; MEMBRANES, ARTIFICIAL; METHODS; MODELS, BIOLOGICAL; MOLECULAR CONFORMATION; PHOSPHATIDYLCHOLINES; SPECTROMETRY, FLUORESCENCE; TEMPERATURE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ); VISCOSITY.

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BINDING SITES; KINETICS; LIPOSOMES; MATHEMATICS; MEMBRANES, ARTIFICIAL; MODELS, BIOLOGICAL; PHOSPHATIDYLCHOLINES; SPECTROMETRY, FLUORESCENCE; TEMPERATURE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ); VISCOSITY.

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INFLUENCE OF PREGNANCY ON COURSE OF PRE-EXISTING RENAL DISEASE. Leoux-Robert C, Aldigier J-C, Benevent D, Charnes J-P *Rev Prat* 27: 493-502, 11 Feb 77 (Fre) [21 ref.] DL/77SEP354  
DIABETIC NEPHROPATHIES (complications); ENGLISH ABSTRACT; FEMALE; GLOMERULONEPHRITIS; HUMAN; HYPERTENSION (complications); KIDNEY DISEASES; KIDNEY FAILURE, CHRONIC (complications); KIDNEY (transplantation);

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## Lester FT

LUPUS ERYTHEMATOSUS, SYSTEMIC (complications); NEPHRITIS, INTERSTITIAL (complications); PREGNANCY IN DIABETES; PREGNANCY COMPLICATIONS; PREGNANCY COMPLICATIONS; CARDIOVASCULAR (complications); PREGNANCY TOXEMIAS (complications); PREGNANCY; REVIEW; TRANSPLANTATION, HOMOLOGOUS.

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ADOLESCENCE; ADULT; AGED; DIABETES MELLITUS (occurrence, therapy); DIABETIC RETINOPATHY (occurrence); ETHIOPIA; FEMALE; HUMAN; MALE; MIDDLE AGE.

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INFLUENCE OF MEMBRANE HETEROGENEITY ON KINETICS OF NONELECTROLYTE TRACER FLOWS. Li JH, Essig A *J Membr Biol* 29: 255-64, 22 Nov 76 (Eng) \*DL/77SEP74

BIOLOGICAL TRANSPORT; CELL MEMBRANE (metabolism); DIFFUSION; HYDROSTATIC PRESSURE; KINETICS; MATHEMATICS; OSMOTIC PRESSURE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ).

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TORULOPSIS GLABRATA--URINARY TRACT INFECTIONS IN DIABETIC PATIENTS IN SINGAPORE. Tan RJ, Lim EW, Ishak B *Aust N Z J Med* 7: 56-9, Feb 77 (Eng) DL/77SEP484

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DIABETES AND HYPOGLYCEMIA IN CHRONIC PANCREATITIS. Linde J, Nilsson LH, Barany FR *Scand J Gastroenterol* 12: 369-73, 1977 (Eng) DL/77SEP358

ADOLESCENCE; ADULT; AGED; CHILD; CHRONIC DISEASE; DIABETES MELLITUS (complications); FEMALE; GLUCAGON (blood); GLYCOSURIA; HUMAN; HYPOGLYCEMIA (etiology, mortality); INSULIN (diagnostic use); MALE; MIDDLE AGE; PANCREATITIS (complications, etiology); RETROSPECTIVE STUDIES.

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ANATOMIC AND PHYLOGENETIC DISTRIBUTION OF SOMATOSTATIN. Vale W, Ling N, Rivier J, Villarreal J, Rivier C, Douglas C, Brown M *Metabolism* 25: 1491-4, Nov 76 (Eng) \*DL/77SEP26

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STUDIES ON THE MECHANISM OF SOMATOSTATIN ACTION ON INSULIN RELEASE. V. EFFECT OF SOMATOSTATIN ANALOGUES ON ARGININE INDUCED RELEASE OF INSULIN AND GLUCAGON FROM THE PERFUSED RAT PANCREAS. Efendic S, Lins PE, Luft R, Sievertsson H, Westin-Sjodal G *Acta Endocrinol (Kbh)* 85: 579-86, Jul 77 (Eng) DL/77SEP432

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INSULIN STIMULATION OF FATTY ACID SYNTHESIS IN HUMAN BREAST CANCER CELLS. Monaco ME, Osborne CK, Lippman ME *J Natl Cancer Inst* 58: 1591-3, Jun 77 (Eng) DL/77SEP262

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THE ROLE OF ABNORMAL HEMORRHOIDYNAMICS IN THE PATHOGENESIS OF DIABETIC RETINOPATHY. Little HL *Trans Am Ophthalmol Soc* 74: 573-636, 1977 (Eng) DL/77SEP399

ADOLESCENCE; ADULT; CAPILLARIES (physiopathology); DIABETIC RETINOPATHY (etiology, physiopathology); ERYTHROCYTE AGGREGATION, INTRAVASCULAR (complications); FEMALE; HEMODYNAMICS; HUMAN; ISCHEMIA (etiology); MALE; MICROCIRCULATION; MIDDLE AGE; RETINAL VESSELS (physiopathology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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LONG-TERM TREATMENT WITH 2-BR-ALPHA-ERGOCRYPTINE IN ACROMEGALY. Belforte L, Camanni F, Chiodini PG, Liuzzi A, Massara F, Molinatti GM, Muller EE, Silvestrini F *Acta Endocrinol (Kbh)* 85: 235-48, Jun 77 (Eng) DL/77SEP423

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INSULIN RESISTANCE IN OBESITY. Lockwood DH *Hosp Pract* 11: 79-83, Dec 76 (Eng) DL/77SEP200

ADIPOSE TISSUE (cytology, metabolism); ANIMAL; FEMALE; GLUCOSE (metabolism); HUMAN; INSULIN RESISTANCE; INSULIN (pharmacodynamics); MALE; OBESITY (metabolism); RATS; RECEPTORS, INSULIN.

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[DIAGNOSIS AND THERAPY OF PYELONEPHRITIS IN DIABETIC PATIENTS] Loew HH *Munch Med Wochenschr* 119: 499-500, 15 Apr 77 (Ger) DL/77SEP299

DIABETIC NEPHROPATHIES (diagnosis, therapy); FEMALE; HUMAN; MALE; PYELONEPHRITIS (diagnosis, therapy).

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INCREASED INSULIN BINDING BY LYMPHOCYTE RECEPTORS INDUCED BY BETA-OH BUTYRATE. Merimee TJ, Pulkkinen AJ, Lofton S *J Clin Endocrinol Metab* 43: 1190-2, Nov 76 (Eng) \*DL/77SEP73

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ANIMAL; BILE (physiology); BIOLOGICAL TRANSPORT; ENGLISH ABSTRACT; GLUCOSE (metabolism); INTESTINAL ABSORPTION; PANCREATIC JUICE (physiology); RATS.

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[GLUCURONYL-GLYCOSAMINO-GLYCAN SULFATE IN THE THERAPY OF DIABETIC PATIENTS] Longo O, Branca S, Aloisio M *Clin Ter* 80: 25-47, 15 Jan 77 (Ita) DL/77SEP135

ADULT; AGED; DIABETES MELLITUS (complications); FEMALE; GLYCOSAMINOGLYCANS (therapeutic use); HUMAN; HYPERCHOLESTEREMIA (prevention & control); HYPERLIPIDEMIA (drug therapy, prevention & control); MALE; MIDDLE AGE; TRIGLYCERIDES (blood).

## Lorenz K

[DIABETIC CHILDREN AND ADOLESCENTS IN A PEDIATRIC DISPENSARY CONSULTATION. ORGANIZATION AND RESULTS] Lorenz K, Jordan R *Z Aerzt Fortbild (Jena)* 71: 266-70, 15 Mar 77 (Ger) DL/77SEP418

ADOLESCENCE; BLOOD SUGAR (analysis); CHILD HEALTH SERVICES; CHILD; DIABETES MELLITUS, JUVENILE (rehabilitation); FEMALE; GERMANY, EAST; HUMAN; MALE; PEDIATRICS; REFERRAL AND CONSULTATION.

## Lorrain J

GLUCAGON SECRETION IN PREGNANT WOMEN WITH SUSPECTED OR MILD

DIABETES MELLITUS. Lorrain J, Robillard R, Cartier A, Ross SA, Dupre J, Boskovic A, Hine MC *Can Med Assoc J* 116: 1289-90, 4 Jun 77 (Eng) DL/77SEP115

BLOOD SUGAR; FEMALE; GLUCAGON (secretion); GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood); PREGNANCY IN DIABETES (physiopathology); PREGNANCY TRIMESTER, THIRD; PREGNANCY.

## Loten EG

EFFECT OF FASTING AND STREPTOZOTOCIN IN THE OBESE-HYPERGLYCEMIC (OB/OB) MOUSE. APPARENT LACK OF A DIRECT RELATIONSHIP BETWEEN INSULIN BINDING AND INSULIN EFFECTS. Le Marchand Y, Loten EG, Assimakopoulos-Jeanne F, Forge ME, Freychet P, Jeanrenaud B *Diabetes* 26: 582-90, Jun 77 (Eng) DL/77SEP182

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INJECTIONS OF INSULIN AND CHANGES OF BODY WEIGHT. Lotter EC, Woods SC *Physiol Behav* 18: 293-7, Feb 77 (Eng) DL/77SEP345

ANIMAL; BLOOD SUGAR (analysis); BODY WEIGHT (drug effects); DOSE-RESPONSE RELATIONSHIP, DRUG; EATING (drug effects); FEMALE; HYPOGLYCEMIA (chemically induced); INJECTIONS, INTRAPERITONEAL; INJECTIONS, SUBCUTANEOUS; INSULIN, PROTAMINE ZINC (administration & dosage, pharmacodynamics); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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CONTROL OF BLOOD GLUCOSE DURING LABOUR IN DIABETIC WOMEN WITH COMBINED GLUCOSE AND LOW-DOSE INSULIN INFUSION. West TE, Lowy C *Br Med J* 1: 1252-4, 14 May 77 (Eng) DL/77SEP102

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[METABOLIC ENCEPHALOPATHY IN DIABETICS] Lubetzk J, Warnet A *Rev Prat* 27: 1237-44, 1 Apr 77 (Fre) DL/77SEP353

BRAIN EDEMA (etiology); DIABETIC COMA (etiology); ENGLISH ABSTRACT; HUMAN; HYPERGLYCEMIC HYPEROSMOLAR NONKETOTIC COMA (etiology).

[ACUTE RENAL FAILURE AFTER INTRAVENOUS UROGRAPHY IN DIABETICS. INCIDENCE OF LACTIC ACIDOSIS IN METFORMIN TREATMENT] Prinsau J, Jardin F, Sanchez A, Baglin A, Domart M, Lubetzk J, Margairaz A, Fritel D *Ann Med Interne (Paris)* 128: 173-7, Feb 77 (Fre) DL/77SEP460

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[INSULIN SECRETION DISORDERS IN CORONARY PATIENTS] Luccioni R, Vague P, Ebagosti A, Balansard P, Simonin R, Vague J, Gerard R *Ann Med Interne (Paris)* 128: 255-62, Mar 77 (Fre) DL/77SEP462

ADULT; AGE FACTORS; AGED; BLOOD SUGAR (metabolism); CHOLESTEROL (blood); CORONARY DISEASE (blood, complications); FEMALE; GLUCOSE (diagnostic use); HUMAN; INSULIN (blood); LIPIDS (blood); MALE; MIDDLE AGE; OBESITY (complications); SEX FACTORS; TRIGLYCERIDES (blood).

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C-PEPTIDE IN DIABETIC CHILDREN AFTER STIMULATION WITH CLUCAGON COMPARED WITH FASTING C-PEPTIDE LEVELS IN NON-DIABETIC CHILDREN. Ludvigsson J, Heding LG *Acta Endocrinol (Kbh)* 85: 364-71, Jun 77 (Eng) DL/77SEP424

ADOLESCENCE; ADULT; C-PEPTIDE (blood); CHILD; COMPARATIVE STUDY; DIABETES MELLITUS, JUVENILE (blood); FASTING; FEMALE; GLUCAGON (administration & dosage, diagnostic use); HUMAN; INJECTIONS, INTRAVENOUS; INSULIN (blood); MALE; PEPTIDES (blood).



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STUDIES ON THE MECHANISMS OF SOMATOSTATIN ACTION ON INSULIN RELEASE. IV. EFFECT OF SOMATOSTATIN ON CYCLIC AMP LEVELS AND PHOSPHODIESTERASE ACTIVITY IN ISOLATED RAT PANCREATIC ISLETS. Claro A, Grill V, Efendic S, Luft R *Acta Endocrinol (Kbh)* 85: 379-88, Jun 77 (Eng) DL/77SEP426

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[PROSPECTIVE STUDY ON SERUM LIPIDS AND LIPOPROTEINS IN THE ZULIAN STATE (AUTHORS TRANSL)] Gomez Ocampo FA, Lugo Rivas A, Lugo Munoz A, Montiel Montiel R, Atencio de Gomez B *Orihod Fr* 28: 94-8, 1977 (Spa) DL/77SEP311

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[A CASE OF IDIOPATHIC KETOTIC HYPOGLYCEMIA SUCCESSFULLY TREATED WITH DIAZOXID. (AUTHORS TRANSL)] Nemethova V, Vigas M, Lukac J, Fatranska M *Bratisl Lek Listy* 67: 476-83, Apr 77 (Slo) DL/77SEP108

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FACIAL PALS IN DIABETES MELLITUS—NOT ONLY A MONONEUROPATHY Lundgren A, Odqvist LM, Hendriksson KG, Larsson LE, Karlberg BE, Jerlvald L *Adv Otorhinolaryngol* 22: 182-9, 1977 (Eng) DL/77SEP443

ACTION POTENTIALS; COMPARATIVE STUDY; DIABETES MELLITUS (complications); DIABETIC NEUROPATHIES; ELECTROMYOGRAPHY; FACIAL PARALYSIS (complications, diagnosis); FEMALE; HUMAN; MALE; MIDDLE AGE.

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STRUCTURAL AND FUNCTIONAL INTEGRITY OF ISOLATED HUMAN ISLETS OF LANGERHANS MAINTAINED IN TISSUE CULTURE FOR 1-3 WEEKS. Lundgren G, Andermon A, Borg H, Buschard K, Groth CG, Gunnarsson R, Hellstrom C, Petersson B, Ostman J *Transplant Proc* 9: 237-40, Mar 77 (Eng) DL/77SEP383

ADULT; ANIMAL; GLUCAGON (analysis); HUMAN; INSULIN (analysis, biosynthesis); ISCHEMIA; ISLANDS OF LANGERHANS (transplantation, ultrastructure); MICE; MICE, NUDE; MIDDLE AGE; OXYGEN CONSUMPTION; PANCREAS (blood supply); TIME FACTORS; TISSUE CULTURE; TRANSPLANTATION, HETEROLOGOUS.

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GLUCOSE ADMINISTRATION AND HEME CATABOLISM AFTER CALORIC RESTRICTION. Lundh B, Ugander L *Gastroenterology* 71: 1061-3, Dec 76 (Eng) \*DL/77SEP65

ADMINISTRATION, ORAL; ADULT; BILIRUBIN (biosynthesis); CALORIC INTAKE; CARBON MONOXIDE; DIET; GLUCOSE (administration & dosage, pharmacodynamics); HEME (metabolism); HUMAN; HYPERBILIRUBINEMIA (metabolism); INFUSIONS, PARENTERAL; MALE.

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ENERGETICS OF PERMEATION OF THIN LIPID MEMBRANES BY IONS. Macdonald RC *Biochim Biophys Acta* 448: 193-8, 5 Oct 76 (Eng) \*DL/77SEP4

DIFFUSION; IONS; LIPIDS; MEMBRANES, ARTIFICIAL; MODELS, CHEMICAL; PERMEABILITY; THERMODYNAMICS; WATER.

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PARENTERAL NUTRITION TECHNIQUES IN CANCER PATIENTS. Dudrick SJ, MacFadyen BV Jr, Souchon EA, Englert DM, Copeland EM *3d Cancer Res* 37: 2440-50, Jul 77 (Eng) DL/77SEP124

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GLUCOSE TOLERANCE AND AETIOLOGY OF PRE-ECLAMPSIA [LETTER]. MacGillivray I, Campbell DM *Lancet* 1: 1108-9, 21 May 77 (Eng) DL/77SEP282

BLOOD SUGAR (analysis); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; HYPERGLYCEMIA (complications); PRE-ECLAMPSIA (etiology); PREGNANCY TOXEMIAS (etiology); PREGNANCY TRIMESTER, THIRD; PREGNANCY.

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ASSESSMENT OF DIABETIC DRUG ACTIVITY IN THE RAT: 5,5-DIPHENYL-2-THIOHYDANTOIN. Mackerer CR, Saunders RN, Haettinger JR, Mehlman MA *J Toxicol Environ Health* 2: 1041-51, May 77 (Eng) DL/77SEP265

ANIMAL; BLOOD SUGAR (metabolism); CHOLESTEROL (blood); DIABETES MELLITUS (chemically induced); DIPHENYLHYDANTOIN (analogs & derivatives); DIPHENYLTHIOHYDANTOIN (pharmacodynamics); EATING (drug effects); FATTY ACIDS, NONESTERIFIED (blood); GROWTH (drug effects); IN VITRO; INSULIN (metabolism); ISLANDS OF LANGERHANS (drug effects, metabolism); LIVER (drug effects, metabolism); MALE; PERFUSION; RATS; STREPTOZOTOCIN (pharmacodynamics); TIME FACTORS; TRIGLYCERIDES (blood).

## Macyszyn R

TRIAL TREATMENT OF ATHEROSCLEROSIS-INDUCED ISCHEMIA OF THE LOWER EXTREMITIES WITH DUSODRIL (AUTHORS TRANSL)] Stadnik J, Cieslik R, Jarochoowski M, Macyszyn R *Przeg Lek* 34: 309-11, 1977 (Pol) DL/77SEP348

## Maestripleri PL

GLUCAGON IN PREDIABETES. Fallucca G, Colletti A, Maestripleri PL, Mirabella C, Andreani D *Panminerva Med* 19: 95-100, Mar-Apr 77 (Eng) DL/77SEP322

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[PREGNANCY AND DIABETES MELLITUS IN THE MATERIAL OF OUR DEPARTMENT] Magat K, Scholtz J, Hilarova A, Rutikay F *Cesk Gynecol* 42: 305, May 77 (Slo) DL/77SEP126

CZECHOSLOVAKIA; FEMALE; HOSPITAL DEPARTMENTS; HUMAN; LABOR, PREMATURE (etiology); PREGNANCY IN DIABETES (complications, occurrence); PREGNANCY.

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THE MANAGEMENT OF SEVERE PREECLAMPSIA AND ECLAMPSIA WITH INTRAVENOUS DIAZOXIDE. Morris JA, Arce JJ, Hamilton CJ, Davidson EC, Maidman JE, Clark JH, Bloom RS *Obstet Gynecol* 49: 675-80, Jun 77 (Eng) DL/77SEP308

## Maizels EZ

EFFECT OF ACETOACETATE ON GLUCOSE METABOLISM IN THE SOLEUS AND EXTENSOR DIGITORUM LONGUS MUSCLES OF THE RAT. Maizels EZ, Ruderman NB, Goodman MN, Lau D *Biochem J* 162: 557-68, 15 Mar 77 (Eng) DL/77SEP488

ACETOACETATES (metabolism, pharmacodynamics); ANIMAL; CITRATES (metabolism); FEMALE; GLUCOSE (metabolism); GLYCOGEN (biosynthesis); GLYCOLYSIS; INSULIN (pharmacodynamics); KETONE BODIES (metabolism); MUSCLES (drug effects, metabolism); PERFUSION; RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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BEHAVIORAL TREATMENT OF OBESITY. LIMITATIONS AND RESULTS WITH THE CHRONICALLY OBSE. Currey H, Malcolm R, Riddle E, Schachte M *JAMA* 237: 2829-31, 27 Jun 77 (Eng) DL/77SEP266

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GLUCOSE-INDUCED PROINSULIN BIOSYNTHESIS. ROLE OF ISLET CYCLIC AMP. Maldonado A, Renold AE, Sharp GW, Cerasi E *Diabetes* 26: 538-45, Jun 77 (Eng) DL/77SEP176

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ANIMAL; GLUCOSE (pharmacodynamics); INSULIN (immunology); ISLANDS OF LANGERHANS (drug effects, metabolism); MALE; PROINSULIN (biosynthesis); RATS; XANTHINES (pharmacodynamics).

## Malecka-Banska E

[ASSESSMENT OF THE MENTAL STATE IN DIABETIC CHILDREN] Malecka-Banska E *Pediatr Pol* 52: 393-9, Apr 77 (Pol) DL/77SEP327

ADOLESCENCE; AGE FACTORS; CHILD; DIABETES MELLITUS, JUVENILE (complications); ENGLISH ABSTRACT; HUMAN; MINIMAL BRAIN DYSFUNCTION (diagnosis); PSYCHOLOGICAL TESTS.

## Malinkovich VD

[CONCENTRATION OF CYCLIC 3, 5-ADENOSINE MONOPHOSPHATE IN THE BLOOD IN ENDOCRINE DISEASES] Slavnov VN, Epahtein EV, Malinkovich VD *Klin Med (Mosk)* 55: 101-4, Apr 77 (Rus) DL/77SEP274

## Malygina SI

[INFLUENCE OF EXPERIMENTAL LIVER REGENERATION ON GLYCEMIA AND LIPID METABOLISM INDICES IN ALLOXAN DIABETES] Malygina SI *Patol Fiziol Eksp Ter* 36-40, Jan-Feb 77 (Rus) DL/77SEP324

ALLOXAN DIABETES (metabolism); ANIMAL; BLOOD SUGAR (metabolism); ENGLISH ABSTRACT; LIPIDS (metabolism); LIVER REGENERATION; LIVER (metabolism); MALE; RATS.

## Mandelcorn M

CURRENT MANAGEMENT OF DIABETIC RETINOPATHY [EDITORIAL]. Mandelcorn M *Can Med Assoc J* 117: 7-8, 9 Jul 77 (Eng) DL/77SEP118

DIABETIC RETINOPATHY (diagnosis, surgery); HUMAN.

## Manhem P

LONG TERM TREATMENT OF MODERATE HYPERTENSION WITH THE BETA1-RECEPTOR BLOCKING AGENT METOPROLOL. II. EFFECT OF SUBMAXIMAL WORK AND INSULIN-INDUCED HYPOGLYCAEMIA ON PLASMA CATECHOLAMINES AND RENIN ACTIVITY, BLOOD PRESSURE AND PULSE RATE. Hansson BG, Dymling JF, Manhem P,

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FASTING HYPERGLYCAEMIA AND RELATIVELY UNIMPAIRED MEAL RESPONSES IN MILD DIABETES. Turner RC, Mann JJ, Simpson RD, Harris E, Maxwell R *Clin Endocrinol (Oxf)* 6: 253-64, Apr 77 (Eng) DL/77SEP128

## Manojlovic D

CHANGES IN PLASMA TRIGLYCERIDES IN RELATION TO CHANGES IN THYROIDINEMIA AND INSULINEMIA IN HYPERTHYROID DIABETICS. Djuric DS, Manojlovic D *Endocrinologie* 15: 151-4, Apr-Jun 77 (Eng) DL/77SEP356

## Mansour TE

HEART PHOSPHOFRUCTOKINASE: ALLOSTERIC KINETICS WITH FRUCTOSE 6-SULFATE. Martensen TM, Mansour TE *Biochemistry* 15: 4973-80, 16 Nov 76 (Eng) \*DL/77SEP41

## Marcus DF

ARGON LASER PHOTOCOAGULATION TREATMENT OF DIABETIC CYSTOID MACULOPATHY. Marcus DF, Aaberg TM *Ann Ophthalmol* 9: 365-72, Mar 77 (Eng) DL/77SEP463

ADULT; AGED; ARGON; DIABETIC RETINOPATHY (surgery); EVALUATION STUDIES; FEMALE; FOLLOW-UP STUDIES; FUNDUS FLUORESCENCE PHOTOGRAPHY; HUMAN; LASER COAGULATION; MACULAR DEGENERATION (surgery); MALE; MIDDLE AGE; PROSPECTIVE STUDIES; RETINAL DEGENERATION (surgery); VISUAL ACUTY; WISCONSIN.

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## Margolis MG

[DIABETIC RETINOPATHY] Margolis MG *Klin Med (Mosk)* 55: 18-23, Mar 77 (Rus) [48 ref.] DL/77SEP273

CAPILLARY PERMEABILITY; DIABETES MELLITUS (complications, metabolism, physiopathology, therapy); DIABETIC RETINOPATHY (classification, etiology, therapy); FUNDUS OCULI; HUMAN; HYPERLIPIDEMIA (complications); HYPERTENSION (complications); INTRAOCULAR PRESSURE; LIPIDS (metabolism); MYOPIA (physiopathology); PLATELET AGGREGATION; RETINAL ARTERY; REVIEW.

## Marks V

LUNCHTIME GIN AND TONIC A CAUSE OF REACTIVE HYPOGLYCAEMIA. O'Keefe SJ, Marks V *Lancet* i: 1286-8, 18 Jun 77 (Eng) DL/77SEP286

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ADENOSINE MONOPHOSPHATE (pharmacodynamics); ADENOSINE TRIPHOSPHATE (pharmacodynamics); ALLOSTERIC REGULATION; ALLOSTERIC SITE; ANIMAL; FRUCTOSE (pharmacodynamics); GUANOSINE TRIPHOSPHATE (pharmacodynamics);

KINETICS; MYOCARDIUM (enzymology); PHOSPHOFRUCTOKINASE (isolation & purification, metabolism); PROTEIN BINDING; SHEEP; SULFURIC ACIDS (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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PANCREATIC TISSUE CULTURE: DEPLETION OF EXOCRINE ENZYMES AND PURIFICATION OF ISLETS FOR TRANSPLANTATION. Matas AJ, Sutherland DE, Kretschmer G, Steffes MW, Najarian JS *Transplant Proc* 9: 337-9, Mar 77 (Eng) DL/77SEP388

AMYLAASE (analysis); ANIMAL; CHYMOTRYPSINOGEN (analysis); DOGS; EXOCRINE GLANDS (enzymology); HUMAN; INSULIN (analysis); ISLANDS OF LANGERHANS (transplantation); PANCREAS; RATS; TISSUE CULTURE; TRANSPLANTATION, AUTOLOGOUS.

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ACIDOSIS (complications); ADULT; AGED; CASE REPORT; ENGLISH ABSTRACT; FEMALE; HUMAN; KETOSIS (complications); KETOSIS, DIABETIC (complications); LUNG DISEASES (diagnosis, etiology); MALE; MEDIASTINAL EMPHYSEMA (complications, etiology); PROGNOSIS; PULMONARY ALVEOLI; PULMONARY EMPHYSEMA (complications, etiology); RUPTURE, SPONTANEOUS (diagnosis, etiology); STOMACH DISEASES (diagnosis, etiology).

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ANIMAL; CARBON DIOXIDE (metabolism); CHROMATOGRAPHY, GAS; CHROMATOGRAPHY, LIQUID; DIPROPYL ACETATE (metabolism, urine); FATTY ACIDS (metabolism); FATTY ACIDS, VOLATILE (metabolism); ISOLEUCINE (pharmacodynamics); MALE; OXIDATION-REDUCTION; PROPIONIC ACIDS (metabolism); RATS; SPECTRUM ANALYSIS, MASS; SUCCINATES (metabolism); TRIMETHYLSILYL COMPOUNDS (transplantation); VALERATES (metabolism).

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ADENOSINE TRIPHOSPHATE; ANIMAL; COENZYME A SYNTHETASES (metabolism); IN VITRO; MAGNESIUM; PECTORALIS MUSCLES (enzymology); PIGEONS; PROTEIN BINDING; SUCCINYL COENZYME A SYNTHETASES (metabolism).

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CALIFORNIA; COMMUNITY PHARMACY SERVICES; DIABETES MELLITUS (prevention & control); HUMAN; HYPERTENSION (prevention & control); MASS SCREENING; PATIENT DROPOUTS; PHARMACISTS (utilization); VENEREAL DISEASES (prevention & control).

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**REVERSAL OF EXPERIMENTAL DIABETES BY FETAL RAT PANCREAS. I. SURVIVAL AND FUNCTION OF FETAL RAT PANCREAS FROZEN TO -196 DEGREES C.** Kemp JA, Mazur P, Mullen Y, Miller RH, Clark W, Brown J *Transplant Proc* 9: 325-8, Mar 77 (Eng) DL/77SEP385

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ADOLESCENCE; ANXIETY (etiology); BODY IMAGE; CHILD; COMPARATIVE STUDY; DIABETES MELLITUS, JUVENILE (complications); FEMALE; HOSTILITY; HUMAN; MALE; RORSCHACH TEST.

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**THE EFFECT OF CALCIUM ON CARDIAC PHOSPHORYLASE ACTIVATION, CONTRACTILE FORCE AND CYCLIC AMP IN EUTHYROID AND HYPERTHYROID RAT HEARTS.** Hartley EJ, McNeill JH *Can J Physiol Pharmacol* 54: 590-5, Aug 76 (Eng) \*DL/77SEP11

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**BLOOD SUGAR (analysis); CASE REPORT; DIABETES MELLITUS, JUVENILE (familial & genetic); DIABETIC COMA (familial & genetic); FEMALE; GALLBLADDER (abnormalities); HUMAN; INCEST; INFANT, LOW BIRTH WEIGHT (injuries); INFANT, NEWBORN; PANCREAS (abnormalities).**

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**DIAZEPAM IN ACUTE MYOCARDIAL INFARCTION. CLINICAL EFFECTS AND EFFECTS ON CATECHOLAMINES, FREE FATTY ACIDS, AND CORTISOL.** Melson M, Andreassen P, Melson H, Hansen T, Grendahl H, Hiltestad LK *Br Heart J* 38: 804-10, Aug 76 (Eng) \*DL/77SEP1

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**ADULT; AGED; ASPARTATE AMINOTRANSFERASE (blood); CATECHOLAMINES (urine); DIAZEPAM (adverse effects, blood, therapeutic use); DOPAMINE (urine); EPINEPHRINE (urine); FATTY ACIDS, NONESTERIFIED (blood); HUMAN; HYDROCORTISONE (blood); MALE; MIDDLE AGE; MYOCARDIAL INFARCT (blood, drug therapy, urine); NOREPINEPHRINE (urine); SHOCK, CARDIOGENIC (prevention & control).**

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**INCREASED INSULIN BINDING BY LYMPHOCYTE RECEPTORS INDUCED BY BETA-OH BUTYRATE.** Merimee TJ, Pulkkinen AJ, Lofton S *J Clin Endocrinol Metab* 43: 1190-2, Nov 76 (Eng) \*DL/77SEP73

**ACIDOSIS (metabolism); CELLS, CULTURED; HYDROXYBUTYRATES (pharmacodynamics); LYMPHOCYTES (metabolism); RECEPTORS, INSULIN (drug effects); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).**

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**GLUCAGON RESPONSE TO ARGININE STIMULATION IN OBESE AND DIABETIC CHILDREN.** Meschi F, Garlaschi C, Di Natale B, Del Guercio MJ, Gargantini L, Chiumello G *Diabetes* 26: 558-60, Jun 77 (Eng) DL/77SEP179

**ADOLESCENCE; ARGININE (diagnostic use); BLOOD SUGAR (metabolism); CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE (blood); FEMALE; GLUCAGON (blood); HUMAN; MALE; OBESITY (blood); SOMATOTROPIN (blood).**

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**ALANINE (blood); AMINO ACIDS (blood); ASPARTIC ACID (blood); BLOOD SUGAR (analysis); CITRULLINE (blood); GLUCAGON (pharmacodynamics); GLUCONEOGENESIS (drug effects); GLYCINE (blood); HUMAN; HYPOGLYCEMIA (blood); INFANT, LOW BIRTH WEIGHT; INFANT, NEWBORN; INFANT, SMALL FOR GESTATIONAL AGE; INFUSIONS, PARENTERAL; ISOLEUCINE (blood); LEUCINE (blood); LIVER (metabolism); PROLINE (blood); VALINE (blood).**

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**ANIMAL; FEMALE; HUMAN; MALE; MICE; NEOPLASMS (physiopathology); RECEPTORS, HORMONE; RECEPTORS, PROGESTERONE; RECEPTORS, STEROID.**

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GLUCAGON (pharmacodynamics); HYDROGEN-ION CONCENTRATION (physiology); PANCREAS (drug effects, secretion); PROTEINS (metabolism); SECRETIN (blood, metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ADULT; AGED; ENGLISH ABSTRACT; FEMALE; HUMAN; INSULIN (blood); ISLANDS OF LANGERHANS (physiopathology); JAUNDICE (physiopathology); JAUNDICE, OBSTRUCTIVE (physiopathology); MALE; MIDDLE AGE.

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ADULT; DIETARY CARBOHYDRATES (administration & dosage); DIETARY FATS (administration & dosage); DIETARY PROTEINS (administration & dosage); DUODENUM; FOOD; GASTROINTESTINAL HORMONES (secretion); HUMAN; HYDROCHLORIC ACID (pharmacodynamics); INTESTINAL MUCOSA (secretion); MALE; MOTILIN (blood, secretion); SECRETORY RATE (drug effects); SODIUM CHLORIDE (pharmacodynamics); TROMETHAMINE (pharmacodynamics).

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ADULT; BIOLOGICAL TRANSPORT (drug effects); DOSE-RESPONSE RELATIONSHIP, DRUG; ELECTROLYTES (metabolism); GASTRIN (blood, pharmacodynamics); GLUCOSE (metabolism, pharmacodynamics); HUMAN; ILEUM (metabolism); INTESTINAL ABSORPTION (drug effects); INTESTINE, SMALL (metabolism); JEJUNUM (metabolism); MALE; MANNITOL; SODIUM CHLORIDE; SODIUM (metabolism); STIMULATION, CHEMICAL; TIME FACTORS; WATER (metabolism).

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ACETATES (metabolism); BREAST NEOPLASMS (metabolism); CELL LINE; FATTY ACIDS (biosynthesis); HUMAN; INSULIN (pharmacodynamics); KINETICS;

LACTATION; RECEPTORS, INSULIN; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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BLOOD SUGAR (metabolism); DIABETES MELLITUS (diagnosis); HUMAN; INSULIN (blood).

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ALCOHOL, ETHYL (adverse effects); ALCOHOLIC BEVERAGES (adverse effects); BEHAVIOR (drug effects); BEVERAGES (adverse effects); BLOOD SUGAR (analysis); FASTING; HUMAN; HYPOGLYCEMIA (chemically induced); INSULIN (blood); SUCROSE (adverse effects); TIME FACTORS.

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[EFFECT OF A REDUCED DIET ON HYPERLIPOPROTEINEMIA IN METABOLIC-ALIMENTARY OBESITY] Frolova IA, Oleneva VA, Zhukova LP *Vopr Pitani* 39-43, Sep-Oct 76 (Rus) \*DL/77SEP35

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ANIMAL; BRAIN CHEMISTRY (drug effects); BRAIN (metabolism); FATTY ACIDS, NONESTERIFIED (blood); GLUCAGON (pharmacodynamics); GLUCOSE (pharmacodynamics); INSULIN (pharmacodynamics); ISOPROTERENOL (pharmacodynamics); MALE; RATS; TRYPTOPHAN (blood, metabolism).

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ACUTE DISEASE; ADOLESCENCE; BIOPSY; CASE REPORT; DIABETIC NEPHROPATHIES (complications, pathology); FEMALE; GLOMERULONEPHRITIS (complications, pathology); HUMAN; MALE; MIDDLE AGE; NEPHROTIC SYNDROME (complications); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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PHENFORMIN (chemical synthesis); TABLETS; TECHNOLOGY, PHARMACEUTICAL.

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ADENOSINE DIPHOSPHATE (metabolism);

ANIMAL: CARBONYL CYANIDE P-

TRIFLUOROMETHOXY-

PHENYLHYDRAZONE (pharmacodynamics);

CARNITINE (analogs & derivatives);

DINITROPHENOLS (pharmacodynamics);

KINETICS; MALE; MITOCHONDRIA, LIVER

(drug effects, metabolism); MITOCHONDRIAL

SWELLING (drug effects); NITRILES

(pharmacodynamics); OXIDATIVE

PHOSPHORYLATION (drug effects);

POTASSIUM (pharmacodynamics); RATS;

SUCROSE (pharmacodynamics).

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ANIMAL; ATROPHY; BENZHYDRYL

COMPOUNDS (adverse effects, toxicity); BRAIN

DISEASES (chemically induced); BRAIN

(pathology); CATS; DOGS; ENGLISH

ABSTRACT; FEMALE; GROWTH DISORDERS

(chemically induced); GUINEA PIGS;

HEMORRHAGE, GASTROINTESTINAL

(chemically induced); HYPERGLYCEMIA

(chemically induced); KIDNEY DISEASES

(chemically induced); LIVER (pathology);

LIVER DISEASES (chemically induced); LIVER

(pathology); MALE; PHENYLUREA

COMPOUNDS (toxicity); PROTEINURIA

(chemically induced); RABBITS; RATS.

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ANIMAL; ARGinine (pharmacodynamics); DOGS; GLUCAGON (pharmacodynamics); INSULIN (pharmacodynamics); ISLANDS OF LANGERHANS (secretion); MALE; SECRETORY RATE (drug effects); SOMATOTROPIN RELEASE INHIBITING HORMONE (immunology, secretion); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ).

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**BIOLOGICAL TRANSPORT, ACTIVE; CHLOROPHENOLS; CHOLESTEROL; ELECTRIC CONDUCTIVITY; ELECTRIC STIMULATION; HYDROGEN-ION CONCENTRATION (physiology); KINETICS; MATHEMATICS; MEMBRANES, ARTIFICIAL; MODELS, BIOLOGICAL; PENTACHLOROPHENOL; PHOSPHATIDYLCHOLINES; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).**

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**DIABETES MELLITUS (blood); HUMAN; INSULIN (blood); IODINE RADIOISOTOPES (diagnostic use); MODELS, BIOLOGICAL.**

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ADOLESCENCE; ADULT; CHILD; DIABETES MELLITUS (surgery); DIABETES MELLITUS, JUVENILE (surgery); ENGLISH ABSTRACT; HUMAN; PANCREAS (transplantation); TRANSPLANTATION, HOMOLOGOUS.

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DISULFIRAM (pharmacodynamics); DRUG SYNERGISM; HUMAN; LEVODOPA (pharmacodynamics); SOMATOTROPIN (secretion).

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ANIMAL; CELL NUCLEUS (drug effects, metabolism); CYTOPLASM (drug effects, metabolism); ENGLISH ABSTRACT; HYDROCORTISONE (pharmacodynamics); INSULIN, PROTAMINE ZINC (pharmacodynamics); LIVER (cytology, drug effects); MALE; RATS; RNA (biosynthesis); RNA, RIBOSOMAL (biosynthesis); STIMULATION, CHEMICAL; TIME FACTORS.

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ADULT; AGED; ARGININE (diagnostic use); CLOFIBRATE (therapeutic use); DIABETES MELLITUS (blood, drug therapy); ERGOLINES (therapeutic use); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; MALE; METHERGOLINE (therapeutic use); MIDDLE AGE; OBESITY IN DIABETES (blood); SEX FACTORS; SOMATOTROPIN (blood); TRIGLYCERIDES (blood).

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ACIDOSIS (chemically induced); AGED; CONTRAST MEDIA (adverse effects); DIABETES MELLITUS (complications, drug therapy); FEMALE; HUMAN; KIDNEY FAILURE, ACUTE (etiology); LACTATES (blood); MALE; METFORMIN (adverse effects, therapeutic use); MIDDLE AGE; UROGRAPHY (adverse effects).

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ADENOSINE CYCLIC 3',5'-MONOPHOSPHATE (pharmacodynamics); CORONARY DISEASE (metabolism); FATTY ACIDS, NONESTERIFIED (metabolism); HEART (drug effects); HUMAN; LACTATES (metabolism); MYOCARDIUM (metabolism); OXYGEN CONSUMPTION (drug effects); PYRUVATES (metabolism).

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ALCOHOL, ETHYL (adverse effects); ANIMAL; CHOLESTEROL (blood); DISEASE MODELS, ANIMAL; DRUG INTERACTIONS; HUMAN; HYPERLIPIDEMIA (chemically induced, drug therapy, metabolism); HYPOGLYCEMIC AGENTS (pharmacodynamics, therapeutic use); MALE; RATS; TIME FACTORS; TRIGLYCERIDES (blood).

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BLOOD SUGAR; COMPARATIVE STUDY; DIABETES MELLITUS (complications); DIABETIC NEPHROPATHIES (therapy); ENGLISH ABSTRACT; FEMALE; FOLLOW-UP STUDIES; HEMODIALYSIS; HUMAN; HYPERTENSION (complications); INSULIN (administration & dosage); MALE; PERITONEAL DIALYSIS; PROGNOSIS; PROTEINURIA; TIME FACTORS.

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ADIPOSE TISSUE (anatomy & histology); ANIMAL; BODY WEIGHT; CORTICOSTERONE

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(blood); DIET; DIETARY CARBOHYDRATES; DIETARY FATS; DIETARY PROTEINS; FATS; UNSATURATED (pharmacodynamics); FEMALE; INSULIN (blood); LIPIDS (metabolism); OVARY; RATS; SOMATOTROPIN (blood); STARCH (pharmacodynamics); SUCROSE (pharmacodynamics); THYROXINE (blood); TRIIODOTHYRONINE (blood).

## Raghavaiah K

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ANIMAL; EPINEPHRINE (pharmacodynamics); GANGLIA (physiology); GLYCOGEN PHOSPHORYLASE (metabolism); GLYCOGEN PHOSPHORYLASE (metabolism); GLYCOGEN (metabolism); HYPERGLYCEMIA (physiopathology); LIVER (drug effects, enzymology, metabolism); PANCREAS (drug effects, enzymology, metabolism); SCORPIONS (drug effects, enzymology, physiology).

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ANIMAL; BINDING, COMPETITIVE; BIOLOGICAL TRANSPORT, ACTIVE; CALORIMETRY; CARNITINE (analogs & derivatives, metabolism, pharmacodynamics); CATTLE; KINETICS; MITOCHONDRIA, MUSCLE (drug effects, metabolism); MODELS, BIOLOGICAL; MYOCARDIUM; TEMPERATURE.

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CELL LINE; CHICK EMBRYO; DNA (biosynthesis); FIBROBLASTS (drug effects, metabolism); GROWTH SUBSTANCES (isolation & purification, metabolism); INSULIN (metabolism); KINETICS; LIVER (analysis, drug effects, metabolism); NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY (pharmacodynamics); ORGAN SPECIFICITY; PEPTIDES (isolation & purification, metabolism); PROINSULIN (pharmacodynamics); RATS; RECEPTORS, DRUG (metabolism); RECEPTORS, INSULIN (metabolism).

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ACIDOSIS, DIABETIC (drug therapy); ADOLESCENCE; BICARBONATES (therapeutic use); CHILD; CHILD, PRESCHOOL; FEMALE; HUMAN; INSULIN (therapeutic use); KETOSIS, DIABETIC (drug therapy); MALE.

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ADMINISTRATION, ORAL; AGE FACTORS; DIABETES MELLITUS (diagnosis); GLUCOSE TOLERANCE TEST; GLUCOSE.

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AMYGDALOID BODY (physiology); ANIMAL; CORPUS STRIATUM (physiology); FEMALE; HIPPOCAMPUS (physiology); HYPOTHALAMUS (physiology); PREOPTIC AREA (physiology); RATS; SEPTUM PELLUCIDUM (physiology); SOMATOTROPIN (secretion); STRESS (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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ANIMAL; BODY WEIGHT; CARBOHYDRATES (metabolism); ENGLISH ABSTRACT; EPIPHYSES (growth & development, metabolism); FRUCTOSE (metabolism); GLUCOSE (metabolism); MALE; NUTRITION DISORDERS; OSSIFICATION, PHYSIOLOGIC; RATS.

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CHEMISTRY, CLINICAL; CHRONIC DISEASE; DIABETES MELLITUS (diagnosis); ENGLISH ABSTRACT; GOUT (diagnosis); HUMAN; LIVER DISEASES (diagnosis); PREVENTIVE MEDICINE.

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ADOLESCENCE; ADULT; BLOOD SUGAR (metabolism); DIABETES MELLITUS (blood, physiopathology); GASTRIC INHIBITORY POLYPEPTIDE (secretion); GASTROINTESTINAL HORMONES (secretion); GLUCAGON (blood, immunology); GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood, immunology); ISLANDS OF LANGERHANS (physiopathology); MIDDLE AGE.

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**TEMPERATURE AND ENDOCRINE ACTIVITY DURING SLEEP IN MAN. ACTIVATION OF CORTISOL AND THYROID-STIMULATING HORMONE. INHIBITION OF HUMAN GROWTH HORMONE SECRETION BY RAISED OR DECREASED AMBIENT AND BODY TEMPERATURES.** Beck U, Reinhardt H, Kendel K, Schmidt-Kessen W *Arch Psychiatr Nervenkr* 222: 245-56, 28 Oct 76 (Eng) \*DL/77SEP90

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**ANIMAL; DIABETES MELLITUS** (blood, chemically induced, drug therapy); **DIHYDROXYCHOLECALCIFEROLS** (blood); **HYDROXYCHOLECALCIFEROLS** (blood); **INSULIN** (therapeutic use); **MALE; RATS; STREPTOZOTOCIN; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).**

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**AMINOISOBUTYRIC ACID** (therapeutic use); **CASE REPORT; DIABETIC COMA** (drug therapy); **GLYCINE** (blood, cerebrospinal fluid, urine); **HUMAN; HYPERGLYCEMIC HYPEROSMOLAR NONKETOTIC COMA** (drug therapy, metabolism); **INFANT; MALE.**

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**CHOLESTEROL-INDUCED ROD-LIKE MOTION OF FATTY ACYL CHAINS IN LIPID**

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[SYMPOSIUM ON THE DIAGNOSIS OF DIABETES MELLITUS. (3-II) SIGNIFICANCE OF THE MEASUREMENT OF PLASMA INSULIN AND GLUCAGON IN THE DIAGNOSIS OF DIABETES MELLITUS (AUTHORS TRANSL.) Imura H, Ikeda M, Seino Y J Jpn Soc Intern Med 66: 27-32, Jan 77 (Jpn) DL/77SEP243

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ANIMAL; ERYTHRITOL; ETHYLENE GLYCOLS; GLUCOSE; GLYCERIN; IN VITRO; LIGHT; LOBSTERS; PERMEABILITY; SARCOPLASMIC RETICULUM (ultrastructure); SCATTERING, RADIATION; SUCROSE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

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ADOLESCENCE; ADULT; CORONARY DISEASE (mortality); DIABETES MELLITUS (mortality); EDUCATIONAL STATUS; HUMAN; MALE; MIDDLE AGE; MILITARY PERSONNEL; MORTALITY; NEOPLASMS (mortality); SOCIAL DESIRABILITY; TUBERCULOSIS (mortality); UNITED STATES.

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[ACTIVITY OF CARBOHYDRATE METABOLISM ENZYMES IN LOACH EMBRYOS UNDER THE INFLUENCE OF HORMONES] Sologub LI, Senkus IaT, Kusen SI, Iavdchenko OI Ukr Biokhim Zh 49: 73-7, Mar-Apr 77 (Ukr) DL/77SEP395

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# Shichiri M

[SYMPOSIUM ON THE DIAGNOSIS OF DIABETES MELLITUS. (4-I) EVALUATION OF INTRAVENOUS GLUCOSE TOLERANCE TEST: AN APPLICATION OF CONTROL-ENGINEERING TECHNIQUE FOR THE QUANTIFICATION OF GLUCOSE HOMEOSTASIS AND INSULIN SECRETORY RESPONSE (AUTHORS TRANSL.) Shichiri M, Inoue M, Shigeta Y J Jpn Soc Intern Med 66: 33-7, Jan 77 (Jpn) DL/77SEP244

BLOOD SUGAR (metabolism); DIABETES MELLITUS (diagnosis); GLUCOSE TOLERANCE TEST; HOMEOSTASIS (drug effects); INSULIN (secretion); MODELS, THEORETICAL.

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ANIMAL; CELL-FREE SYSTEM; DOGS; FISHES (metabolism); ISLANDS OF LANGERHANS (analysis); MEMBRANES (metabolism); MICROSOMES (metabolism, ultrastructure); MOLECULAR WEIGHT; PANCREAS (metabolism); POLY A (isolation & purification); PROINSULIN (biosynthesis, metabolism); PROTEIN PRECURSORS (biosynthesis, metabolism); RNA, MESSENGER (isolation & purification, metabolism); SPECIES SPECIFICITY; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); WHEAT.

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HUMAN; KETONE BODIES (analysis); METHODS.

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AMINO ACIDS (administration & dosage); BODY COMPOSITION; BODY WATER (metabolism); EXTRACELLULAR SPACE (metabolism); HUMAN; INFUSIONS, PARENTERAL; METABOLIC DISEASES (diagnosis); NUTRITION DISORDERS (diagnosis); NUTRITION; NUTRITIONAL REQUIREMENTS; PARENTERAL HYPERALIMENTATION; POSTOPERATIVE CARE; POSTOPERATIVE COMPLICATIONS (diagnosis); POTASSIUM (metabolism); SODIUM RADIOISOTOPES (diagnostic use); SODIUM (metabolism); TRITIUM (diagnostic use); WATER-ELECTROLYTE BALANCE.

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[DEVELOPMENT OF A TECHNOLOGY FOR PHENFORMIN TABLETTING] Osipova ID, Kulesh KF, Shlenskova VM *Form Zh* 31: 83-4, Sep-Oct 76 (Ukr) DL/77SEP162

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(complications); GRAFT SURVIVAL; HISTOCOMPATIBILITY ANTIGENS; HISTOCOMPATIBILITY TESTING; HL-A; HUMAN; KIDNEY (physiology, transplantation); MORTALITY; TIME FACTORS; TRANSPLANTATION, ALLOGENEIC; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ACETONTRILES (pharmacodynamics); ANIMAL; BODY WEIGHT; COMPARATIVE STUDY; DOSE-RESPONSE RELATIONSHIP, DRUG; ERGOLINES (pharmacodynamics); ERGOTOXINE (pharmacodynamics); FEMALE; MICE; MICE, INBRED C57BL; ORGAN WEIGHT; PITUITARY GLAND (drug effects, physiology); PROLACTIN (blood); SOMATOTROPIN (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ); 2-BROMOERGOCRYPTINE (pharmacodynamics).



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EFFECT OF ERGOT ALKALOIDS ON SULFONYLUREA-STIMULATED INSULIN SECRETION IN DOGS. Sirek A, Sirek OV, Policova Z, Kerekes A *Pharmacology* 15: 259-67, 1977 (Eng) DL/77SEP344

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INTESTINAL ADAPTATION AFTER JEJUNO-ILEAL BYPASS OPERATION FOR MASSIVE OBESITY. Iversen BM, Schjonsby H, Skagen DW, Solhaug JH *Eur J Clin Invest* 6: 355-60, 10 Sep 76 (Eng) \*DL/77SEP14

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SIZE HETEROGENEITY OF HUMAN SERUM SOMATOMEDIN. Bala RM, Blakley ED, Smith GR *J Clin Endocrinol Metab* 43: 1110-21, Nov 76 (Eng) \*DL/77SEP71

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ADOLESCENCE; ADULT; AUDIOMETRY; AUDITORY THRESHOLD; CHILD; COCHLEA (physiopathology); DIABETES MELLITUS, JUVENILE (physiopathology); HUMAN; MIDDLE AGE; REFLEX.

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[ACTIVITY OF CARBOHYDRATE METABOLISM ENZYMES IN LOACH EMBRYOS UNDER THE INFLUENCE OF HORMONES] Sologub LI, Senkus IaT, Kusen SI, Iavdochenko OI *Ukr Biokhim Zh* 49: 73-7, Mar-Apr 77 (Ukr) DL/77SEP395

ANIMAL; COMPARATIVE STUDY; ENGLISH ABSTRACT; ENZYMES (metabolism); ESTRONE (pharmacodynamics); FISHES (embryology, metabolism); GLUCOKINASE (metabolism); GLUCOSEPHOSPHATASE (metabolism); GLUCOSEPHOSPHATE DEHYDROGENASE (metabolism); HEXOKINASE (metabolism); HEXOSEDIPHOSPHATASE (metabolism); HORMONES (pharmacodynamics); HYDROCORTISONE (pharmacodynamics); INSULIN (pharmacodynamics); PHOSPHOFRUCTOKINASE (metabolism); THYROXINE (pharmacodynamics).

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ADRENALECTOMY; AGE FACTORS; ANIMAL; BLOOD SUGAR (metabolism); BODY WEIGHT; FEMALE; GLUCOSE TOLERANCE TEST; HYPERGLYCAEMIA (etiology); MICE; MICE, OBESE (blood, physiology).

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**TOTAL PARENTERAL NUTRITION WITH SELECTIVE HISTIDINE DEPLETION IN MAN. II. HEMATOLOGICAL, LIPID, AND HORMONAL RESPONSES.** Terry BE, Yamanaka WK, Anderson HL, Wixom RL *Am J Clin Nutr* 30: 900-9, Jun 77 (Eng) DL/77SEP446

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AGED; BLOOD SUGAR (analysis); CHRONIC DISEASE; HUMAN; IMMUNOLOGIC TECHNIQS; INSULIN (blood); LIVER CIRRHOSIS (blood); MIDDLE AGE; PROINSULIN (blood).

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ANIMAL; BLOOD SUGAR (metabolism); EPINEPHRINE (pharmacodynamics); INSULIN (blood); ISOPROTERENOL (pharmacodynamics); MALE; PHENTOLAMINE (pharmacodynamics); PROPRANOLOL (pharmacodynamics); RATS.

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C-PEPTIDE (metabolism); DIABETES MELLITUS (diagnosis); HUMAN; PEPTIDES (metabolism).

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PLASMA INSULIN DETECTION IN THE STUDY OF PREDIABETIC SUBJECTS. Lenti G, Pagano G, Trovati M, Pisu E *Panminerva Med* 19: 87-94, Mar-Apr 77 (Eng) DL/77SEP321

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[CHANGES OF BLOOD POTASSIUM LEVEL AND ELECTROCARDIOGRAM DUE TO TREATMENT IN PATIENTS WITH DIABETES MELLITUS] Goldberg GA, Trunchenkova ES, Bryzgalina SM, Kuzina EV *Ter Arkh* 49: 64-7, 1977 (Rus) DL/77SEP370

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CONGENITAL GENERALIZED LIPODYSTROPHY AND EXPERIMENTAL LIPOATROPHIC DIABETES IN RABBITS TREATED SUCCESSFULLY WITH FENFLURAMINE. Trygstad O, Foss I *Acta Endocrinol (Kbh)* 85: 436-48, Jun 77 (Eng) DL/77SEP428

ADULT; ANIMAL; BLOOD SUGAR (analysis); BRAIN (metabolism); DIABETES MELLITUS (chemically induced, complications, drug therapy); FENFLURAMINE (therapeutic use); GLUCOSE TOLERANCE TEST; HUMAN; INDOLEACETIC ACIDS (urine); LIPODYSTROPHY (congenital, complications, drug therapy); PIMOZIDE (therapeutic use); PREDNISOLONE (diagnostic use); RABBITS; SEROTONIN (metabolism); TRIGLYCERIDES (blood).



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ENDOCRINE-METABOLIC CRITERIA FOR DISTINGUISHING TWO PATHOGENETIC TYPES OF BREAST CANCER. Tsyrlina EV, Bernstein LM, Semiglavov VF, Vasilieva IA, Kholidin SA, Dilman VM *Neoplasma* 24: 199-206, 1977 (Eng) DL/77SEP306

ADULT; AGE FACTORS; AGED; BLOOD SUGAR; BREAST NEOPLASMS (blood, physiopathology); DEXAMETHASONE (administration & dosage); FEMALE; HUMAN; HYPOTHALAMUS (drug effects, physiopathology); INSULIN (administration & dosage); MENOPAUSE; MIDDLE AGE; PITUITARY-ADRENAL SYSTEM (physiopathology); STEROIDS (blood, urine).

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ACUTE DISEASE; ANESTHESIA; ANESTHESIA, INHALATION; ANESTHESIA, INTRAVENOUS; CHRONIC DISEASE; CLINICAL RESEARCH; COMPARATIVE STUDY; DEPRESSION (therapy); ELECTRIC STIMULATION; HISTAMINE (therapeutic use); HUMAN; INSULIN (therapeutic use); LENGTH OF STAY; MENTAL DISORDERS (therapy); NITROUS OXIDE; PSYCHOTHERAPY; REVIEW; SAFETY; SCHIZOPHRENIA (drug therapy, therapy); SHOCK THERAPY, ELECTRIC (adverse effects, methods); SUCCINYLCHOLINE; THIOPENTAL; TRANQUILIZING AGENTS (therapeutic use).

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FASTING HYPERGLYCAEMIA AND RELATIVELY UNIMPAIRED MEAL RESPONSES IN MILD DIABETES. Turner RC, Mann JJ, Simpson RD, Harris E, Maxwell R *Clin Endocrinol (Oxf)* 6: 253-64, Apr 77 (Eng) DL/77SEP128

AGED; COMPARATIVE STUDY; DIABETES MELLITUS (diagnosis, metabolism); FASTING; FEMALE; GLUCOSE TOLERANCE TEST; GLUCOSE (metabolism); HUMAN; HYPERGLYCEMIA (metabolism); INSULIN (metabolism); MALE; MIDDLE AGE; NUTRITION; OBESITY IN DIABETES (metabolism); TRIGLYCERIDES (metabolism).

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ANIMAL; BASE SEQUENCE; CODON; DNA RESTRICTION ENZYME (metabolism); DNA (isolation & purification); DNA, BACTERIAL (analysis, metabolism); DNA, RECOMBINANT (analysis, metabolism); ESCHERICHIA COLI; EXTRACHROMOSOMAL INHERITANCE; GENES, STRUCTURAL; ISLANDS OF LANGERHANS (analysis); PLASMIDS; PROINSULIN (biosynthesis); PROTEIN PRECURSORS (biosynthesis); RATS; RNA, MESSENGER (isolation & purification); TRANSFORMATION, GENETIC; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ADENOSINE TRIPHOSPHATE (pharmacodynamics); AGARICACEAE (enzymology); CELL DIVISION; COPRINUS (enzymology); DARKNESS; GLYCOGEN PHOSPHORYLASE (isolation & purification, metabolism); KINETICS; LIGHT; SPECIES SPECIFICITY; TIME FACTORS.

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IMPAIRED CARBOHYDRATE METABOLISM AND IDIOPATHIC MENIERES DISEASE. Updegraff WR *Ear Nose Throat J* 56: 160-3, Apr 77 (Eng) DL/77SEP140

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ANIMAL; BIOLOGICAL ASSAY; BRAIN CHEMISTRY; CHICKENS; HYPOTHALAMUS (analysis); ORGAN SPECIFICITY; PANCREAS (analysis); PHYLOGENY; PIGEONS; RADIOIMMUNOASSAY; RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (analysis, immunology); SPECIES SPECIFICITY; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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Varga J

[BARBITURATE DETERMINATION IN MATERNAL AS WELL AS FETAL SERUM DURING ANESTHESIA OF DIABETIC AND NON-DIABETIC PREGNANCIES] Varga J, Kiszal J, Csomor S, Balazs M, Somos P *Zentralbl Gynaekol* 99: 348-51, 1977 (Ger) DL/77SEP421

ANESTHESIA, OBSTETRICAL; CESAREAN SECTION; ENGLISH ABSTRACT; FEMALE; FETAL BLOOD; HEXOBARBITAL (blood); HUMAN; MATERNAL-FETAL EXCHANGE; PREANESTHETIC MEDICATION; PREGNANCY IN DIABETES (blood); PREGNANCY.

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[CLINICAL GENETICS OF DISEASES WITH HEREDITARY PREDISPOSITION] Vartanian ME, Snehnevskii AV *Vestn Akad Med Nauk SSSR* 76-83, 1976 (Rus) DL/77SEP419

ARTHRITIS, RHEUMATOID (etiology, familial & genetic); CORONARY DISEASE (etiology, familial & genetic); DIABETES MELLITUS (etiology, familial & genetic); DISEASES IN TWINS; FEMALE; HEREDITARY DISEASES (etiology); HUMAN; MALE; PYLORIC STENOSIS (etiology, familial & genetic); SCHIZOPHRENIA (etiology, familial & genetic); TWINS, DIZYGOTIC; TWINS, MONOZYGOTIC.

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MULTIPLE SCLEROSIS AND MILK [LETTER] Verdy M *Can Med Assoc J* 117: 27, 9 Jul 77 (Eng) DL/77SEP117

BLOOD SUGAR (analysis); FOOD HYPERSENSITIVITY; HUMAN; INSULIN (secretion); MILK (adverse effects); MULTIPLE SCLEROSIS (etiology, physiopathology).

Viberti G

GROWTH HORMONE RESPONSE TO ARGinine IN NORMAL SUBJECTS AND IN PATIENTS WITH CHEMICAL DIABETES AND EFFECT OF CLOFIBRATE AND OF METEGLINE. Pontiroli AE, Viberti G, Pozza G *Proc Soc Exp Biol Med* 155: 160-3, Jun 77 (Eng) DL/77SEP338

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ACIDOSIS, DIABETIC (drug therapy); ELECTROLYTES (therapeutic use); HUMAN; INFUSIONS, PARENTERAL; INSULIN (therapeutic use); KETOSIS, DIABETIC (drug therapy); WATER.

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ADULT; ARTERIOSCLEROSIS OBLITERANS (surgery); CASE REPORT; CHRONIC DISEASE; DIABETIC ANGIOPATHIES (surgery);

ENGLISH ABSTRACT; FEMALE; FOLLOW-UP STUDIES; HUMAN; HYPERHIDROSIS (surgery); MALE; MIDDLE AGE; NERVOUS SYSTEM DISEASES (surgery); RAYNAUDS DISEASE (surgery); SCLERODERMA; SYSTEMIC (surgery); SYMPATHECTOMY; THORACIC NERVES (surgery); THROMBOANGIITIS OBLITERANS (surgery); VASCULAR DISEASES (surgery).

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ADOLESCENCE; ADULT; DIABETES MELLITUS (diagnosis); ENGLISH ABSTRACT; FEMALE; FETAL DISEASES (diagnosis); HUMAN; PREGNANCY IN DIABETES (diagnosis); PREGNANCY TRIMESTER, THIRD; PREGNANCY; VAGINAL SMEARS.

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STUDIES ON FATTY ACID OMEGA-OXIDATION, ANTIKETOGENIC EFFECT AND GLUCONEOGENICITY OF DICARBOXYLIC ACIDS. Wada F, Usami M *Biochim Biophys Acta* 487: 361-8, 25 May 77 (Eng) DL/77SEP97

ALLOXAN DIABETES (blood); ANIMAL; BLOOD SUGAR (metabolism); DICARBOXYLIC ACIDS (metabolism, pharmacodynamics); FATTY ACIDS (metabolism); KETONE BODIES (blood); MALE; RATS; STARVATION.

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EFFECTS OF HORMONES AND SERUM ON GLYCOCEN METABOLISM IN ADULT RAT LIVER PARENCHYMAL CELL PRIMARY CULTURES. Walker PR, Grindle MJ *J Cell Physiol* 91: 181-91, May 77 (Eng) DL/77SEP219

CELLS, CULTURED (enzymology, metabolism); CULTURE MEDIA; DEXAMETHASONE (pharmacodynamics); FRUCTOSE (metabolism); FRUCTOSEBIPHOSPHATE ALDOLASE (metabolism); GLUCAGON (pharmacodynamics); GLUCOSE (metabolism); GLYCOCEN SYNTHETASE (metabolism); GLYCOCEN (biosynthesis); HEXOKINASE (metabolism); INSULIN (pharmacodynamics); LIVER GLYCOCEN (metabolism); LIVER; PYRUVATE KINASE (metabolism); RATS; SERUM ALBUMIN, BOVINE (pharmacodynamics).

Wampola H

[THERAPY OF CHRONIC ARTERIAL OCCLUSIVE DISEASE. STUDIES WITH AN ORALLY ADMINISTERED DRUG UNDER AMBULATORY CONDITIONS] Wampola H *Fortschr Med* 95: 1240, 1242-5, 12 May 77 (Ger) DL/77SEP191

ADULT; AGED; ARTERIAL OCCLUSIVE DISEASES (drug therapy); DIABETES MELLITUS (complications); DIHYDROERGOCRISTINE (therapeutic use); DIHYDROERGOTAMINE (therapeutic use); DIHYDROERGOTOXINE (therapeutic use);

DRUG COMBINATIONS; DRUG EVALUATION; ENGLISH ABSTRACT; ERGOTAMINE (analogs & derivatives); FEMALE; GANGRENE (drug therapy, etiology); HUMAN; INTERMITTENT CLAUDICATION (drug therapy); LEG ULCER (drug therapy); MALE; MIDDLE AGE; PULSE (drug effects); YOHIMBINE (therapeutic use).

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**FAMILIAL HEMOCHROMATOSIS. PHYSIOLOGIC STUDIES IN THE PRECIRRHOTIC STAGE OF THE DISEASE.** Feller ER, Pont A, Wands JR, Carter EA, Foster G, Kourides IA, Isselbacher KJ. *N Engl J Med* 296: 1422-6, 23 Jun 77 (Eng) DL/77SEP305

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**ADOLESCENCE; ADULT; BLOOD SUGAR (metabolism); CHILD; COMPARATIVE STUDY; DIABETES MELLITUS, JUVENILE (blood); FEMALE; GLUCAGON (blood); HUMAN; INSULIN (pharmacodynamics); MALE.**

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**ADENOMA; ANIMAL; DOGS; ESTRADIOL (pharmacodynamics); FEMALE; HORMONES (pharmacodynamics); HYDROCORTISONE (pharmacodynamics); HYPERPLASIA; INSULIN (pharmacodynamics); MAMMARY NEOPLASMS, EXPERIMENTAL (pathology, secretion); PRECANCEROUS CONDITIONS (pathology, secretion); PROGESTERONE (pharmacodynamics); PROLACTIN (pharmacodynamics); SOMATOTROPIN (pharmacodynamics); TISSUE CULTURE (methods); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).**

## Warnes DM

**THE APPEARANCE OF GLUCONEOGENESIS AT BIRTH IN SHEEP. ACTIVATION OF THE PATHWAY ASSOCIATED WITH BLOOD OXYGENATION.** Warnes DM, Seamark RF, Ballard FJ. *Biochem J* 162: 627-34, 15 Mar 77 (Eng) DL/77SEP490

**ANIMAL; ANIMALS, NEWBORN (metabolism); BLOOD SUGAR (metabolism); EPINEPHRINE (pharmacodynamics); FEMALE; FETUS (enzymology, metabolism); GLUCAGON (pharmacodynamics); GLUCONEOGENESIS (drug effects); GLUCOSEPHOSPHATASE (metabolism); HEXOSEDIPHOSPHATASE (metabolism); LIVER (enzymology); OXYGEN (blood); PHOSPHOENOLPYRUVATE CARBOXYKINASES (metabolism); PYRUVATE CARBOXYLASE (metabolism); SHEEP (growth & development, metabolism).**

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**[MORPHOLOGY OF DIABETIC NEPHROPATHY (AUTHORS TRANSL)]** Wehner H. *Munch Med Wochenschr* 119: 489-92, 15 Apr 77 (Ger) DL/77SEP297

**ANEURYSM; ANIMAL; ARTERIOSCLEROSIS (complications); DIABETES MELLITUS (complications); DIABETIC NEPHROPATHIES (pathology, therapy); ENGLISH ABSTRACT; HUMAN; KIDNEY PAPILLARY NECROSIS (complications); KIDNEY (blood supply, pathology); NEPHROSCLEROSIS (pathology); PYELONEPHRITIS (complications); RATS.**

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**SELECTIVE CYCLIC NUCLEOTIDE PHOSPHODIESTERASE INHIBITORS AS POTENTIAL THERAPEUTIC AGENTS.** Weiss B, Hait WN. *Annu Rev Pharmacol Toxicol* 17: 441-77, 1977 (Eng) [309 ref.] DL/77SEP470

**ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (analysis, physiology); ADENYL CYCLASE (metabolism); ANIMAL; ANTI-INFLAMMATORY AGENTS (analysis); ANTIVIRAL AGENTS; ASTHMA (drug therapy); CARDIOVASCULAR DISEASES (drug therapy); DISEASE (metabolism); ENZYME ACTIVATION; EXTRACELLULAR SPACE (analysis); GUANOSINE CYCLIC 3,5 MONOPHOSPHATE (analysis, physiology); GUANYL CYCLASE (metabolism); HAMSTERS; HUMAN; HYPOGLYCEMIC AGENTS; ISOENZYMES; KINETICS; MENTAL DISORDERS (drug therapy); MICE; NEOPLASMS (drug therapy); OBESITY (drug therapy); PHOSPHODIESTERASES (antagonists & inhibitors, metabolism); PSORIASIS (drug therapy); RATS, REVIEW; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).**

## Weldon KL

**NUTRIENT INTAKE AND MEAL PATTERNS OF MICMAC INDIAN AND CAUCASIAN WOMEN IN SHUBENACADIE, NS.** Johnston JL, Williams CN, Weldon KL. *Can Med Assoc J* 116: 1356-9, 18 Jun 77 (Eng) DL/77SEP116

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**STIMULATION OF DNA SYNTHESIS BY HUMAN PLACENTAL LACTOGEN OR INSULIN IN ORGAN CULTURES OF BENIGN HUMAN BREAST TUMORS.** Welsch CW, McManus MJ. *Cancer Res* 37: 2257-61, Jul 77 (Eng) DL/77SEP121

**BREAST NEOPLASMS (drug therapy, etiology, metabolism, pathology); DNA, NEOPLASM (biosynthesis); EPITHELIAL CELLS (drug effects, metabolism, pathology); FEMALE; HUMAN; INSULIN (pharmacodynamics); MITOSIS; ORGAN CULTURE; PLACENTAL LACTOGEN (pharmacodynamics); PREGNANCY; PROLACTIN (pharmacodynamics); THYMIDINE (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).**

## Wepler R

**[CLINICAL CHEMISTRY AND PREVENTIVE MEDICINE (AUTHORS TRANSL)]** Rommel K, Wepler R. *J Clin Chem Clin Biochem* 15: 245-8, Apr 77 (Ger) DL/77SEP250

## West TE

**CONTROL OF BLOOD GLUCOSE DURING LABOUR IN DIABETIC WOMEN WITH COMBINED GLUCOSE AND LOW-DOSE INSULIN INFUSION.** West TE, Lowy C. *Br Med J* 1: 1252-4, 14 May 77 (Eng) DL/77SEP102

**BLOOD SUGAR; DRUG COMBINATIONS; FEMALE; GLUCOSE (administration & dosage); HUMAN; HYPOGLYCEMIA (prevention & control); INFANT, NEWBORN; INFANT, NEWBORN, DISEASES (prevention & control); INJECTIONS, INTRAVENOUS; INSULIN (administration & dosage); LABOR; PREGNANCY IN DIABETES (drug therapy); PREGNANCY TRIMESTER, THIRD; PREGNANCY.**

## Westin-Sjodal G

**STUDIES ON THE MECHANISM OF SOMATOSTATIN ACTION ON INSULIN RELEASE. V. EFFECT OF SOMATOSTATIN ANALOGUES ON ARGININE INDUCED RELEASE OF INSULIN AND GLUCAGON FROM THE PERFUSED RAT PANCREAS.** Efendic S, Lins PE, Luft R, Sievertsson H, Westin-Sjodal G. *Acta Endocrinol (Kbh)* 85: 579-86, Jul 77 (Eng) DL/77SEP432

## Westlake JR

**PLASMA UNCONJUGATED ESTRIOL VALUES IN HIGH-RISK PREGNANCY.** Bashore RA, Westlake JR. *Am J Obstet Gynecol* 128: 371-80, 15 Jun 77 (Eng) DL/77SEP451

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**ALLOXAN DIABETES IN SPONTANEOUSLY HYPERTENSIVE RATS: GRAVIMETRIC, METABOLIC AND HISTOPATHOLOGICAL ALTERATIONS.** Iams SG, Wexler BC. *Br J Exp Pathol* 58: 177-99, Apr 77 (Eng) DL/77SEP95

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**GLUCOSE TOLERANCE IN PATIENTS WITH ORAL LICHEN PLANUS.** Christensen E, Holmstrup P, Wiberg-Jorgensen F, Neumann-Jensen B, Findborg JJ. *J Oral Pathol* 6: 143-51, May 77 (Eng) DL/77SEP257

## Wilkin GP

**PREPARATION OF CELL BODIES FROM THE DEVELOPING CEREBELLUM: STRUCTURAL AND METABOLIC INTEGRITY OF THE ISOLATED CELLS.** Wilkin GP, Balazs R, Wilson JE, Cohen J, Dutton GR. *Brain Res* 115: 181-99, 15 Oct 76 (Eng) \*DL/77SEP10

**AGE FACTORS; ANIMAL; ANIMALS, NEWBORN; CARBON DIOXIDE (metabolism); CELL SEPARATION (methods); CEREBELLAR CORTEX (cytology, metabolism, ultrastructure); GLUCOSE (metabolism); LYSINE (metabolism); NERVE TISSUE PROTEINS (biosynthesis); OXYGEN CONSUMPTION; POTASSIUM (metabolism); PURKINJE CELLS (ultrastructure); RATS.**

## Williams CN

**NUTRIENT INTAKE AND MEAL PATTERNS OF MICMAC INDIAN AND CAUCASIAN WOMEN IN SHUBENACADIE, NS.** Johnston JL, Williams CN, Weldon KL. *Can Med Assoc J* 116: 1356-9, 18 Jun 77 (Eng) DL/77SEP116

## Willms B

**[THE EFFECT OF METABOLIC CONTROL ON THE DEVELOPMENT OF LATE COMPLICATIONS OF DIABETES (AUTHORS TRANSL)]** Willms B. *Munch Med Wochenschr* 119: 482-8, 15 Apr 77 (Ger) DL/77SEP296

**ALLOXAN DIABETES (complications); ANIMAL; BASEMENT MEMBRANE (metabolism); DIABETES MELLITUS (complications, metabolism); DIABETIC ANGIOPATHIES (etiology); DIABETIC NEPHROPATHIES (physiopathology); DISEASE MODELS, ANIMAL; DOGS; ENGLISH ABSTRACT; GLUCOSE (metabolism); HAMSTERS; HUMAN; INSULIN (administration & dosage, deficiency); KIDNEY (physiopathology, transplantation); RATS; TIME FACTORS.**

**[FUTURE PROSPECT OF DIABETES THERAPY (AUTHORS TRANSL)]** Willms B. *Munch Med Wochenschr* 119: 513-6, 15 Apr 77 (Ger) DL/77SEP302

**ANIMAL; DIABETES MELLITUS (therapy); DRUG THERAPY, COMBINATION; ENGLISH ABSTRACT; FUTUROLOGY; GLUCOSE (administration & dosage); HUMAN; INSULIN (administration & dosage); ISLANDS OF LANGERHANS (transplantation); PANCREAS (transplantation); RATS, SOMATOTROPIN RELEASE INHIBITING HORMONE (adverse effects, physiology, therapeutic use); TRANSPLANTATION, HOMOLOGOUS.**

## Wills MR

### Wills MR

METABOLIC RESPONSE TO INTRAVENOUS SALBUTAMOL THERAPY IN ACUTE ASTHMA. Tickner TR, Cramp DG, Foo AY, Johnson AJ, Bateman SM, Pidgeon J, Spiro SG, Clarke SW, Wills MR *Thorax* 32: 182-4, Apr 77 (Eng) DL/77SEP373

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LACK OF CORRELATION BETWEEN NITROGEN BALANCE AND SERUM INSULIN LEVELS DURING PROTEIN SPARING WITH AND WITHOUT DEXTROSE. Freeman JB, Stegink LD, Wittne MF, Danney MM, Thompson RG *Gastroenterology* 73: 31-6, Jul 77 (Eng) DL/77SEP186

### Wixom RL

TOTAL PARENTERAL NUTRITION WITH SELECTIVE HISTIDINE DEPLETION IN MAN. II. HEMATOLOGICAL, LIPID, AND HORMONAL RESPONSES. Terry BE, Yamanaka WK, Anderson HL, Wixom RL *Am J Clin Nutr* 30: 900-9, Jun 77 (Eng) DL/77SEP446

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DOES A CYTOPLASMIC FACTOR STIMULATE THE TRANSFER OF PHOSPHATIDYL SERINE FROM LIPOSOMES TO MITOCHONDRIA. Baranska J, Wojtczak L *FEBS Lett* 72: 83-6, 15 Nov 76 (Eng) \*DL/77SEP64

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EPIDEMIOLOGY OF STROKE. Wolf PA, Dawber TR, Thomas HE, Colton T, Kannel WB *Adv Neurol* 16: 5-19, 1977 (Eng) DL/77SEP442  
ADULT; AGE FACTORS; AGED; CEREBROVASCULAR DISORDERS (etiology, occurrence, prevention & control); CHOLESTEROL (blood); DIABETES MELLITUS (complications); FEMALE; FOLLOW-UP STUDIES; HEART DISEASES (complications); HEMATOCRIT; HEMOGLOBINS (analysis); HUMAN; HYPERTENSION (complications); MALE; MIDDLE AGE; OBESITY (complications); RISK; SEX FACTORS; SMOKING (complications); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES.

### Wolters GH

EFFECTS OF FASTING ON INSULIN SECRETION, ISLET GLUCOSE METABOLISM, AND THE CYCLIC ADENOSINE 3,5-MONOPHOSPHATE CONTENT OF RAT PANCREATIC ISLETS IN VITRO. Wolters GH, Konijnendijk W, Bouman PR *Diabetes* 26: 530-7, Jun 77 (Eng) DL/77SEP175

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ANIMAL; FASTING; GLUCOSE (metabolism, pharmacodynamics); GLYCERALDEHYDE (pharmacodynamics); INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, metabolism); MALE; RATS; TIME FACTORS.

### Wong J

THE INCIDENCE OF UNSUSPECTED PERIPHERAL ARTERIAL DISEASE

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ADOLESCENCE; ADULT; AGED; ANKLE; ARTERIES; ATHEROSCLEROSIS (occurrence); CARDIOVASCULAR DISEASES (occurrence); CHILD; DIABETIC ANGIOPATHIES (occurrence); FEMALE; HONG KONG; HUMAN; MALE; MIDDLE AGE; PULSE; SMOKING (occurrence); SURGERY; OPERATIVE; ULNA; VASCULAR DISEASES (occurrence).

### Woods SC

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[PANCREATIC ISLAND CELL TUMORS AND THEIR SYNDROMES. I. INSULINOMAS, ORGANIC HYPERTENSINISM] Woodtli W, Hedinger C *Schweiz Med Wochenschr* 107: 685-93, 21 May 77 (Ger) DL/77SEP360

ABDOMEN, ACUTE (etiology); ADENOMA (diagnosis); ADOLESCENCE; ADULT; AGED; CASE REPORT; CHILD; CHILD, PRESCHOOL; DEPRESSION (etiology); ENGLISH ABSTRACT; EPILEPSY (etiology); FEMALE; GROWTH DISORDERS (etiology); HUMAN; HYPERGLYCEMIA (etiology); HYPERINSULINISM (etiology); INFANT; ISLET CELL TUMOR (complications, pathology); MALE; MIDDLE AGE; NEOPLASTIC ENDOCRINE-LIKE SYNDROMES (diagnosis); OBESITY (etiology); PSYCHOSES (etiology); UNCONSCIOUSNESS (etiology).

### Wu C

HORMONAL REGULATION OF GLUTAMINE SYNTHETASE AND ORNITHINE AMINOTRANSFERASE IN NORMAL AND NEOPLASTIC RAT TISSUES. PP. 125-38. Wu C In: Criss WE, et al., ed. *Control mechanisms in cancer*. New York, Raven Press, 1976. W1 P667M v.1 1976. (Eng) [39 ref.] DL/77SEP236

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); AGE FACTORS; AMINOTRANSFERASES (metabolism); ANIMAL; BINDING, COMPETITIVE; COMPARATIVE STUDY; ESTRADIOL (pharmacodynamics); FEMALE; GLUCAGON (pharmacodynamics); GLUTAMINE SYNTHETASE (metabolism); HEPATOMA (enzymology); HORMONES (physiology); HYDROCORTISONE (pharmacodynamics); KIDNEY NEOPLASMS (enzymology); KIDNEY (enzymology); KIDNEY (metabolism); LIVER NEOPLASMS (enzymology); LIVER (enzymology); MALE; MONOGRAPH (mortality); NEOPLASMS, EXPERIMENTAL (enzymology); ORNITHINE AMINOTRANSFERASE (metabolism); RATS; RECEPTORS, ESTROGEN; REVIEW; THYROXINE (pharmacodynamics); TRIAMCINOLONE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

### Wunsch E

SYNTHESES OF MOTILIN ANALOGUES. Wunsch E *Scand J Gastroenterol [Suppl]* 11: 19-24, 1976 (Eng) \*DL/77SEP82

AMINO ACID SEQUENCE; CHROMATOGRAPHY, ION EXCHANGE; GASTROINTESTINAL HORMONES (chemical synthesis); LEUCINE; METHIONINE; MOTILIN (analogs & derivatives, analysis, chemical synthesis); NORLEUCINE.

RELEASE OF MOTILIN IN MAN. Mitznegg P, Bloom SR, Christofides N, Besterman H, Domschke W, Domschke S, Wunsch E, Demling L *Scand J Gastroenterol [Suppl]* 11: 53-6, 1976 (Eng) \*DL/77SEP84

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PROGRESS IN THE PROBLEM OF STRUCTURE ACTIVITY RELATIONS OF GASTROINTESTINAL HORMONES. PP. 19-27. Wunsch E, Jaeger E, Moroder L, Schulz I In: Bonfils S, et al., ed. *Hormonal receptors in digestive tract physiology*. Amsterdam, North-Holland Publ, 1977. W3 135 no.3 1976. (Eng) DL/77SEP229

BINDING SITES; GASTRIC INHIBITORY POLYPEPTIDE (pharmacodynamics); GASTROINTESTINAL HORMONES (pharmacodynamics, physiology); GLUCAGON (pharmacodynamics); MONOGRAPH (mortality); PROTEIN BINDING; RECEPTORS, HORMONE (physiology); SECRETIN (analogs & derivatives, pharmacodynamics); STRUCTURE-ACTIVITY RELATIONSHIP; VASOACTIVE INTESTINAL PEPTIDE (pharmacodynamics).

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GLUCOSE LOADING AND DEHYDRATION IN THE CAMEL. Yagil R, Berlyne GM *J Appl Physiol* 42: 690-3, May 77 (Eng) DL/77SEP208  
ADAPTATION, PHYSIOLOGICAL; ANIMAL; BLOOD SUGAR; CAMELS (physiology); CREATINE (urine); DEHYDRATION (blood, physiopathology, urine); DIURESIS; FEMALE; GLOMERULAR FILTRATION RATE; GLUCOSE (metabolism, pharmacodynamics); GLYCOSURIA; INSULIN (blood); KIDNEY TUBULES (metabolism); KIDNEY (physiopathology); KIDNEY (drug effects).

### Yamanaka WK

TOTAL PARENTERAL NUTRITION WITH SELECTIVE HISTIDINE DEPLETION IN MAN. II. HEMATOLOGICAL, LIPID, AND HORMONAL RESPONSES. Terry BE, Yamanaka WK, Anderson HL, Wixom RL *Am J Clin Nutr* 30: 900-9, Jun 77 (Eng) DL/77SEP446

### Yamauchi T

HYPOGLYCEMIA ASSOCIATED WITH CONGENITAL SYPHILIS. Flier HR Jr, Yamauchi T *J Arkansas Med Soc* 73: 494-5, May 77 (Eng) DL/77SEP209

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EVIDENCE AGAINST THE INVOLVEMENT OF ADENOSINE 3,5-CYCLIC MONOPHOSPHATE IN GLUCOSE INHIBITION OF BETA-GALACTOSIDASE INDUCTION IN BACILLUS MEGATERIUM. Yeung KH, Larsson GC, Yamazaki H *Can J Biochem* 54: 854-65, Oct 76 (Eng) \*DL/77SEP50

### Yashiki S

[THE STUDY OF PHYSIOLOGICAL CHEMISTRY ON A SUBUNIT OF SALIVARY GLAND HORMONE (2) (AUTHORS TRANSL.)] Aonuma S, Kohama Y, Nakajin S, Yashiki S, Egawa H *Folia Endocrinol Jpn* 52: 93-104, 20 Feb 76 (Jpn) \*DL/77SEP16

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[SYMPOSIUM ON THE DIAGNOSIS OF DIABETES MELLITUS. (3)-I A STUDY ON THE CARBOHYDRATE INTOLERANCE IN ASSOCIATION WITH OTHER ENDOCRINE DISORDERS (AUTHORS TRANSL.)] Okuyama M, Yasuda K *J Jpn Soc Intern Med* 66: 22-6, Jun 77 (Jpn) DL/77SEP242

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## Yen TT

RESPONSE OF DIABETIC MICE (DB/DB) TO P-FLUOROPHENETHYLBIGUANIDE. Yen TT, Greenberg MM, Allan JA, Acton JM *Pharmacol Res Commun* 9: 39-47, Jan 77 (Eng) DL/77SEP341

ANIMAL; BIGUANIDES (pharmacodynamics); BLOOD SUGAR (metabolism); DIABETES MELLITUS (familial & genetic, metabolism); INSULIN (blood); LACTATES (blood); MALE; MICE; MICE, INBRED C57BL; RESPIRATION (drug effects); TIME FACTORS.

## Yernault JC

THE ENDOCRINOMETABOLIC EFFECTS OF BECLOMETHASONE DIPROPIONATE IN ASTHMATIC PATIENTS. Yernault JC, Leclercq R, Schandevyl W, Virasoro E, De Coster A, Copinchi G *Chest* 71: 698-702, Jun 77 (Eng) DL/77SEP139

ADRENAL GLANDS (drug effects); ASTHMA (drug therapy, metabolism, physiopathology); BECLOMETHASONE (pharmacodynamics, therapeutic use); BLOOD SUGAR (analysis); DRUG DEPENDENCE; GLUCOSE (metabolism); HUMAN; HYDROCORTISONE (blood); HYPOTHALAMUS (drug effects); INSULIN (blood); PITUITARY GLAND (drug effects); PREDNISOLONE; RESPIRATORY FUNCTION TESTS.

## Yeung KH

EVIDENCE AGAINST THE INVOLVEMENT OF ADENOSINE 3,5-CYCLIC MONOPHOSPHATE IN GLUCOSE INHIBITION OF BETA-GALACTOSIDASE INDUCTION IN *BACILLUS MEGATERIUM*. Yeung KH, Larsson GC, Yamazaki H *Can J Biochem* 54: 854-855, Oct 76 (Eng) \*DL/77SEP50

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); *BACILLUS MEGATERIUM* (drug effects, enzymology, metabolism); BIOLOGICAL TRANSPORT, ACTIVE; CELL DIVISION; ENZYME INDUCTION (drug effects); GALACTOSE (metabolism); GALACTOSIDASES (biosynthesis); GLUCOSE (metabolism, pharmacodynamics); GLYCERIN (metabolism); GUANOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); KINETICS; LACTOSE (metabolism).

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POSITION OF THE FETAL HEAD IN LATE PREGNANCY ESTIMATED BY THE B-SCAN. Ylostalo P, Jarvinen PA, Jouppila P *Ultrasound Med Biol* 2: 291-3, 1977 (Eng) DL/77SEP397

CEPHALOMETRY; ECHOENCEPHALOGRAPHY; FEMALE; FETUS; HEAD; HUMAN; LABOR PRESENTATION; PREGNANCY IN DIABETES; PREGNANCY TOXEMIAS; PREGNANCY TRIMESTER, THIRD; PREGNANCY.

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ENERGIZATION OF MITOCHONDRIAL INNER MEMBRANES CAUSED BY L-MALATE. Higuti T, Sato M, Mizuno S, Yokota M, Sugiyama Y, Nishitani Y, Sekiya M, Tani I *Biochim Biophys Acta* 449: 10-22, 13 Oct 76 (Eng) \*DL/77SEP6

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## Yue DK

INSULIN RESISTANCE AND NEW INSULINS. Yue DK, Turtle JR *Aust Fam Physician* 6: 286, 289, Mar 77 (Eng) DL/77SEP483

DIABETES MELLITUS (drug therapy); HUMAN; HYPERGLYCEMIA (etiology); HYPOGLYCEMIA (etiology); INSULIN ANTIBODIES (analysis); INSULIN RESISTANCE; INSULIN (therapeutic use); INSULIN (administration & dosage).

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EFFECT OF HLA MATCHING ON CADAVER KIDNEY FUNCTION: EXPERIENCE AT A SINGLE LARGE CENTER. Simmons RL, Yunis EJ, Noreen H, Thompson EJ, Fryd DS, Najarian JS *Transplant Proc* 9: 491-3, Mar 77 (Eng) DL/77SEP392

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LIGAND BINDING ASYMMETRY AND LIPID FLUIDITY CHANGES IN INSIDE-OUT AND RIGHT SIDE-OUT PLASMA MEMBRANE VESICLES. Zachowski A, Aubry J, Nicolau C *FEBS Lett* 70: 201-4, Nov 76 (Eng) \*DL/77SEP63

ADENOSINE TRIPHOSPHATASE (metabolism); ANIMAL; BINDING SITES; CELL LINE; CELL MEMBRANE (metabolism, ultrastructure); CONCANAVALIN A (metabolism); GLUCOSEPHOSPHATASE (metabolism); LIGANDS; LIPIDS (metabolism); MICE; NEOPLASMS, EXPERIMENTAL (metabolism); NUCLEOTIDASES (metabolism); PEPTIDOGLYCAN (metabolism); PLASMACYTOMA (metabolism); RECEPTORS, CONCANAVALIN A (metabolism); SPECTROMETRY, FLUORESCENCE.

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EVALUATION OF DIABETIC GLYCEMIC CONTROL IN HOSPITAL AND EXTRA-HOSPITAL REGIMEN (AUTHORS TRANSL.) Attardo R, Zanno C, Gamba S, Papotti G, Barbero PL, Bruni B *Ann Osp Maria Vittoria Torino* 19: 102-17, Jan-Jun 76 (Ita) DL/77SEP464

DIAGNOSTIC AND THERAPEUTIC DIAGRAMMATIZATION OF DIABETIC COMA: PRESENTATION OF 2 RECENT CASES) Barbero PL, Gamba S, Zanno C, Bollati C, Martinoglio P, Bruni B *Ann Osp Maria Vittoria Torino* 19: 74-101, Jan-Jun 76 (Ita) DL/77SEP466

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EFFECT OF BOVINE SERUM ALBUMIN ON MONOACYL- AND DIACYLGLYCEROL 3-PHOSPHATE FORMATION IN MITOCHONDRIAL AND MICROSOMAL FRACTIONS OF RABBIT HEARTS. Zaror-Behrens G, Kako KJ *Lipids* 11: 713-7, Oct 76 (Eng) \*DL/77SEP77

ANIMAL; COENZYME A (metabolism); FATTY ACIDS (metabolism); KINETICS; MICROSOMES (drug effects, metabolism); MITOCHONDRIA, MUSCLE (drug effects, metabolism); MYOCARDIUM (metabolism); PHOSPHATIDIC ACIDS (biosynthesis); PHOSPHOLIPIDS (biosynthesis); RABBIT; SERUM ALBUMIN, BOVINE (pharmacodynamics).

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[AN EPIDEMIOLOGICAL STUDY OF CANCER OF THE OVARY (AUTHORS TRANSL.) Lau HU, Petschelt E, Poehls H, Pollex G, Unger HH, Zegenhagen V *Arch Geschwulstforsch* 47: 57-66, 1977 (Ger) DL/77SEP477

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DEPLETION OF BODY PHOSPHATE--UBIQUITOUS, SUBTLE, DANGEROUS [CLINICAL CONFERENCE]. Zeluff GW, Suki WN, Jackson D *Heart Lung* 6: 519-25, May-Jun 77 (Eng) DL/77SEP203

ALCOHOLISM (complications); ALKALOSIS (complications); ANTACIDS (adverse effects); BLOOD TRANSFUSION (adverse effects); BONE DISEASES (etiology); GLUCOSE (adverse effects); HEMATOLOGIC DISEASES (etiology); HUMAN; HYPERPARATHYROIDISM (complications); HYPOKALEMIA (complications); INSULIN (adverse effects); KETOSIS, DIABETIC (complications); KIDNEY DISEASES (etiology); LIVER DISEASES (etiology); MUSCULAR DISEASES (etiology); NEUROLOGIC MANIFESTATIONS; NUTRITION DISORDERS (complications); PARENTERAL FEEDING (adverse effects); PHOSPHATES (blood, deficiency, metabolism); VITAMIN D DEFICIENCY (complications).

## Zhukova LP

EFFECT OF A REDUCED DIET ON HYPERLIPOPROTEINEMIA IN METABOLIC-ALIMENTARY OBESITY [Frolova IA, Olenova VA. Zhukova LP *Vopr Pitani* 39-43, Sep-Oct 76 (Rus) \*DL/77SEP35

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[METHODS OF EVALUATING THE FUNCTION OF TRANSPLANTED ISLETS OF LANGERHANS (AUTHORS TRANSL.) Rumpf K, Zick R, Thiele J *Langenbecks Arch Chir* 343: 293-305, 22 Apr 77 (Ger) DL/77SEP288

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INHIBITION OF STRESS ULCER FORMATION WITH SOMATOSTATIN IN RATS. Zierden E, Hengst K, Wagner H, Gerlach U *Res Exp Med (Berl)* 168: 199-201, 29 Oct 76 (Eng) \*DL/77SEP80

ANIMAL; MALE; RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (therapeutic use); STOMACH ULCER (prevention & control); STRESS.

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STIMULATION OF DRUG METABOLISM BY RIFAMPICIN IN PATIENTS WITH CIRRHOSIS OR CHOLESTASIS MEASURED BY INCREASED HEXOBARBITAL AND TOLBUTAMIDE CLEARANCE. Zilly W, Brämer DD, Richter E *Eur J Clin Pharmacol* 11: 287-93, 20 Apr 77 (Eng) DL/77SEP157

ADULT; AGED; CHOLESTASIS (blood, drug therapy); FEMALE; HEXOBARBITAL (blood); HUMAN; KINETICS; LIVER CIRRHOSIS (blood, drug therapy); MALE; METABOLIC CLEARANCE RATE (drug effects); MIDDLE AGE; RIFAMPIN (pharmacodynamics, therapeutic use); STIMULATION, CHEMICAL; TIME FACTORS; TOLBUTAMIDE (blood).

## Zimmer A

LUNG CARCINOMA OF SHEEP (JAAGSIEKTE). ANALYSIS OF FREE AMINO ACIDS AND GLUCOSE TOLERANCE TESTS. Zimmer A, Hod I, Nobel TA, Klopfer U, Perk K *J Natl Cancer Inst* 58: 1595-9, Jun 77 (Eng) DL/77SEP263

AMINO ACIDS (blood); ANIMAL; DIABETES MELLITUS (complications); FEMALE; GLUCOSE TOLERANCE TEST; GLYCINE (blood); HYPERGAMMAGLOBULINEMIA (complications); LUNG NEOPLASMS (blood, complications, veterinary); SHEEP DISEASES (blood, complications); SHEEP.

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HYPERCAROTENEMIA-A CASE REPORT. Ibrahim K, Kara RY, Zuberi SJ *JIPMA* 26: 224-5, Nov 76 (Eng) DL/77SEP268

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ADOLESCENCE; ADULT; AGED; CASE REPORT; FEMALE; HUMAN; ISLET CELL TUMOR (diagnosis); MALE; MIDDLE AGE; PANCREATIC NEOPLASMS (diagnosis).

Anonymous

PURIFIED INSULIN-A NEW ASPECT IN THE TREATMENT OF DIABETES MELLITUS [EDITORIAL]. Anonymous *JAMA* 26: 215, Nov 76 (Eng) DL/77SEP267

DIABETES MELLITUS (drug therapy); INSULIN (immunology, isolation & purification, therapeutic use).

CURRENT CONCEPTS IN DIABETES MELLITUS. Anonymous *Johns Hopkins Med J* 140: 331-6, Jun 77 (Eng) DL/77SEP269

AUTOIMMUNE DISEASES; BICARBONATES (therapeutic use); BLOOD SUGAR; CASE REPORT; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE (blood, drug therapy, etiology); HUMAN; INFUSIONS, PARENTERAL; INSULIN (therapeutic use); KETOSIS, DIABETIC (drug therapy); MALE; MUMPS VIRUS; RUBELLA VIRUS; VIRUS DISEASES (complications).

HYPOGLYCAEMIA AND HYPERGLYCAEMIA IN PREGNANCY [EDITORIAL]. Anonymous *Med J Aust* 1: 470-1, 2 Apr 77 (Eng) DL/77SEP293

FEMALE; FETAL DEATH (occurrence); HUMAN; HYPERGLYCEMIA (therapy); HYPOGLYCEMIA (therapy); INFANT MORTALITY; INFANT, NEWBORN; PREGNANCY COMPLICATIONS (therapy); PREGNANCY.

[PROPOSALS AFTER ANALYSIS OF SOME SWEDISH SURVEYS. HEALTH CONTROL EVERY 5 YEARS FOR ADULTS WHEN ADEQUATE RESOURCES FOR PRIMARY CARE BECOME AVAILABLE] Anonymous *Nord Med* 92: 138-41, May 77 (Swe) DL/77SEP331

ADOLESCENCE; ADULT; BACTERIURIA (prevention & control); BLOOD PRESSURE DETERMINATION; BLOOD SUGAR (analysis); BREAST NEOPLASMS (prevention & control); ECONOMICS, MEDICAL; ELECTROCARDIOGRAPHY; FEMALE; GLYCOSURIA (prevention & control); HEALTH SURVEYS; HUMAN; INSURANCE, HEALTH; LIPIDS (blood); LUNG (radiography); MALE; MIDDLE AGE; PROTEINURIA (prevention & control); QUESTIONNAIRES; SWEDEN; TIME FACTORS; VAGINAL SMEARS; VISION TESTS.



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